

Detailed Evaluations of Local 2012-2013 Milestones

Introduction

The following explains the intent, scope and limitations of the 2013 local milestone evaluations. It also provides context for understanding the approach MDE took in assessing progress towards meeting local two-year programmatic milestone goals identified in the county-level Phase II WIP reports.

What is being evaluated?

Commitments & Achievements: This evaluation focuses on two-year programmatic milestone commitments established by local governments engaged in the Chesapeake Bay restoration. It considers a) whether the initial commitments were robust, and b) whether the original commitments were achieved, based on a review of the local milestones status reports. The categories used in the milestone evaluations are intended to capture the variety of programmatic activities that were generally reflected in the various County reports.

Programmatic vs. Implementation Milestones: There are two categories of milestones: Programmatic commitments and implementation actions. This evaluation focuses on the *programmatic* commitments, as BMP implementation is reported through a separate process each year for evaluation of progress assessed by the Bay watershed model. To acknowledge implementation milestone commitments and efforts noted in many of the County reports, a BMP Implementation category has been included in the evaluation table.

Local Government Functions: The evaluation focuses on pollution source sectors for which local governments have some degree of control: management of *stormwater, septic systems and wastewater treatment plants*, through strategies developed by local WIP teams. The agricultural sector is not part of the evaluation, as both near-term and long-term WIP goals and progress in this sector are managed by the Maryland Department of Agriculture and the county-based Soil Conservation Districts, with the active participation of Maryland's farming communities.

What is the purpose of the Milestone Evaluation?

Accountability: The 2-year Milestones are intended to promote continual, incremental progress toward a long-term goal by setting near-term commitments. The evaluation promotes accountability relative to this intent.

Constructive Feedback: The evaluation process includes communications between the State and local partners. This feedback process promotes bi-directional education of State and local parties involved in the Bay restoration process.

Information Sharing and Transparency: Because the evaluations are shared among local jurisdictions, and with the general public, the lessons learned are also shared. The process also supports transparency of governmental activities related to Bay restoration.

What are some limitations of the Evaluation?

All Jurisdictions are Not Equal: Maryland's local jurisdictions included in the evaluation vary significantly in a variety of ways (e.g., location, amount of developed land). Consequently, although a single set of criteria was used in the evaluations, these underlying differences among jurisdictions should be considered when interpreting them.

Counties and Municipalities: One challenge of the Bay restoration process is identifying the parties with direct control over pollutant loads. Within the borders of most counties in Maryland, that control is shared between county and municipal government. Hence, although we routinely make reference to "the county," as if it's a single entity, it is often shorthand for an amalgam of the county and municipal governments as well as other partners. This insight is important to a balanced interpretation of the milestone achievements. (In some cases, separate county and municipality commitments were identified in the local milestone reports and are similarly delineated in the evaluations.)

A note on the ratings used in the Evaluation

Ratings of High, Medium and Low were assigned, first to signify the strength of the original milestone commitments in each category of programmatic activity, and secondly as a broad assessment of the progress achieved towards meeting each commitment. These two ratings for level of commitment and degree of progress were then weighed in setting the overall rating for each category or sub-category of activity.

In the categories of Legal Authority Enhancements and Contractor Support (a sub-category of Resource Enhancements), the term "None" is used where no commitments were made, on the assumption that enhancements in these areas are not essential for that particular jurisdiction. In addition, there are special circumstances where "None" is used because a rating was considered to be inappropriate, as in the following two examples:

1. A commitment to pursue a local ordinance is abandoned because a new State regulation renders the original milestone unnecessary;
2. No commitment is made to address wastewater treatment plants because upgrades to the local plants were completed prior to the milestone period.

Allegany County 2012-2013 Milestones Evaluation

The County¹ received “High” and “Medium” ratings in nearly all categories of the 2012-2013 Milestones evaluation, as summarized in the following table. Progress that has been made in the stormwater sector should be built upon. More could be done in the septic system sector, though this is a relatively small source within the County. The wastewater treatment plant sector has been addressed by ENR upgrades completed prior to the milestone period. Follow-through on meeting commitments to resource enhancements should be reflected in future milestones. It is recognized that, due to Allegany County’s distant location from the Bay and other factors, its impact on Bay water quality is relatively small.

Summary Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	• Medium	• High	<ul style="list-style-type: none"> • High <p>The rating reflects the numerous sources of funding acquired for multiple projects. Additionally, grant applications for the continuation of current projects have also been submitted.</p>
Legal Authority Enhancements (e.g., new ordinances)	• None	• None	<ul style="list-style-type: none"> • None <p>No commitments were made to enhance legal authorities to increase water quality restoration capacity.</p>
Organizational Enhancements	• High	• High	<ul style="list-style-type: none"> • High <p>There has been a very high level of coordination among several organizations in an effort to enhance a variety of management strategies. Significant progress on tracking/reporting through the development and maintenance of a stormwater BMP database.</p>
Planning/Studies	• High	• High	<ul style="list-style-type: none"> • High <p>Significant planning efforts have been made to identify restoration opportunities, and conduct analyses to prioritize opportunities.</p>

¹ Although we routinely make reference to “the County” as if it’s a single entity, it is often shorthand for an amalgam of the county and municipal governments as well as other partners.

Allegany County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Public Engagement	• Low	• High	<ul style="list-style-type: none"> • High <p>Although there was no reference to expanding public engagement opportunities in the original milestone commitments, numerous public engagement activities have taken place.</p>
Addresses Appropriate Sectors? (Comprehensiveness)	• Medium	• Medium	<ul style="list-style-type: none"> • Medium <p>Programmatic efforts in the stormwater sector should be built upon and expanded. The septic systems sector has modest impact on the Bay. The wastewater treatment plant sector has been addressed by ENR upgrades completed prior to the milestone period.</p>
BMP Implementation			<p>Urban tree planting, stream restoration and abandoned mine reclamation are ongoing implementation efforts noted in the County's Programmatic Milestones status report. Some BMP implementation has exceeded the original milestone goals. The original milestone goals may have been set somewhat low. Final Programmatic Milestone achievements and BMP Implementation Progress for 2012-2013 are both presented in more detail in the <u>“Final 2012-2013 Programmatic Milestones Report-Allegany County”</u> document.</p>

Detailed Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>The rating reflects the numerous sources of funding acquired for multiple projects. Additionally, grant applications for the continuation of current projects have also been submitted.</p>
Funding	<ul style="list-style-type: none"> • Continue to pursue funding for Stream Restoration projects. • Continue to pursue funding through the Flood Buyout Program to continue the current pace of impervious area reductions. • Continue to pursue funding for the Frostburg retrofit as well as smaller scale stormwater retrofits. • No explicit commitments for funding of urban tree planting in original milestones. • Medium 	<ul style="list-style-type: none"> • Emergency Watershed Protection (EWP) funding was awarded to Allegany County Department of Public Works (ACDPW) to complete two stream restoration projects. Additionally, ACDPW prepared an application for the Chesapeake & Atlantic Coastal Bays Trust Fund Capital Improvement Grant for restoration of Evitts Creek (submitted on January 29, 2014). • Over the last two years, funding for the Flood Buyout Program has not been secured to continue current pace of implementation. • Two grant applications for stormwater retrofit project funding 	<ul style="list-style-type: none"> • High

Allegany County 2012-2013 Milestones Evaluation

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		<p>have been submitted but not awarded. The ACDPW in partnership with the Allegany Soil Conservation District (ASCD) has prepared and submitted an application for the Chesapeake and Coastal Bays Trust Fund Capital Improvement Grant to construct the Bobcat Court storm-water management pond. Also, ASCD was awarded funding for construction of 5 bioretention structures.</p> <ul style="list-style-type: none"> • ACDPW was awarded \$130K in funding to implement tree plantings on 17.6 acres of County-owned flood buyout properties. The City of Cumberland was also awarded funding for planting trees within city limits. • High 	
Staff: New or re-assigned	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • Low
Contractor Support	<ul style="list-style-type: none"> • None 	<ul style="list-style-type: none"> • None 	<ul style="list-style-type: none"> • None
Legal Authority Enhancements (e.g., new ordinances)	<ul style="list-style-type: none"> • None 	<ul style="list-style-type: none"> • None 	<ul style="list-style-type: none"> • None <p>No commitments were made to enhance legal authorities to increase water quality restoration capacity.</p>

Allegany County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Organizational Enhancements	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>There has been a very high level of coordination among several organizations in an effort to enhance a variety of management strategies. Significant progress on tracking/reporting through the development and maintenance of a stormwater BMP database.</p>
Internal and External Coordination	<ul style="list-style-type: none"> • Establish a sub-committee of relevant stakeholders (e.g. DNR-FS, TNC, SCD, local watershed groups and jurisdictions, and the local Appalachian Laboratory of the University of Maryland Center for Environmental Science) and evaluate opportunities to expand urban tree planting and stream buffer capacity. • Establish a sub-committee of relevant stakeholders (e.g. Allegany County Departments of Public Works and Community Services, Allegany 	<ul style="list-style-type: none"> • The Trees for TMDL group has been established and has coordinated with the Department of Natural Resources (DNR), the University of Maryland and the ACDPW to prioritize areas and implement urban tree planting. • A sub-committee for this strategy has been identified through an existing group (MOTA). The MOTA group has identified the City of Frostburg as a target for stormwater retrofitting. • The ASCD & ADPW are using the Stream Restoration Projects Priority List developed by the MOTA group to prioritize and choose stream restoration projects to complete. 	<ul style="list-style-type: none"> • High

Allegany County 2012-2013 Milestones Evaluation

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	<p>SCD and City of Frostburg) and identify target areas for stormwater retrofits that will focus on restoring local streams.</p> <ul style="list-style-type: none"> • Continued partnership between the Allegany SCD & Allegany County DPW to administer stream restoration projects. • Establish a sub-committee of relevant stakeholders (e.g. BOM, AML, DNR-FS, TNC, etc.) and evaluate need and opportunities to build on capacity for abandoned mine reclamation. • Allegany County will work with the State and the Chesapeake Bay Program (CBP) to learn more about implementation of urban nutrient management strategies. • SEC strategies on extractive lands were not identified in the original milestone goals. • High 	<ul style="list-style-type: none"> • Trees for TMDL Field Trip was jointly coordinated with BOM staff to visit properties that were historically mined and are now vacant fields with tree planting potential. Building on Abandoned Mine Reclamation capacity has been and will continue to be a focus of the Trees for TMDL group. • Allegany County has contacted and is awaiting response from MDE staff as to whether an automatic credit is given based on the lawn fertilizer law that went into effect October 1, 2013. • In 2013, Allegany County pursued a better understanding of how a Sediment and Erosion Control (SEC) strategy on extractive lands could be credited. This involved a number of conversations with Garrett County staff (SEC on extractive lands is sole strategy for meeting WIP goals), MDE staff and BOM staff. • High 	
Tracking/Reporting	<ul style="list-style-type: none"> • Promote use of the BMP Tracker 	<ul style="list-style-type: none"> • The County performed a “historic BMP cleanup” effort which produced 	<ul style="list-style-type: none"> • High

Allegany County 2012-2013 Milestones Evaluation

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	<ul style="list-style-type: none"> • Low 	<p>a GIS database that located and identifies all stormwater BMPs permitted and installed since the 1980s. The database will be kept current by County GIS staff and resubmitted each year with updates. Web-based BMP Tracker has been abandoned as it was determined that County GIS staff have capacity to manage data provided by our partners.</p> <ul style="list-style-type: none"> • High 	
New Programs	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • Low
Program Enhancements	<ul style="list-style-type: none"> • Identify locations for tree planting where nutrient removal efficiencies are expected to be the highest. • High 	<ul style="list-style-type: none"> • TNC partnered with DNR and University of MD to develop a model to predict locations of topographical convergence where higher pollutant removal efficiencies are expected. WIP Team subcommittee “Trees for TMDL” conducting field trips/investigations of identified sites. • High 	<ul style="list-style-type: none"> • High
Planning/Studies	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Significant planning efforts have been made to identify restoration opportunities, and conduct analyses to prioritize opportunities.</p>
	<ul style="list-style-type: none"> • Perform a review and analysis 	<ul style="list-style-type: none"> • The Nature Conservancy (TNC) has 	<ul style="list-style-type: none"> • High

Allegany County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>of currently available data to identify riparian zones and other non-forested lands and determine how much and specifically where reforestation is needed or practical. County-wide field evaluation of current stream conditions will be performed and a priority list organized for cost effective projects.</p> <ul style="list-style-type: none"> • To identify target areas for stormwater retrofits. • To identify target areas for impervious area reductions. • Sub-committee to evaluate need and opportunities to build on capacity for abandoned mine reclamation. • Establish a sub-committee of relevant stakeholders and evaluate opportunities to expand urban tree planting and stream buffer capacity to improve water quality outcomes. • Allegany County staff will monitor the State's initiative for Urban Nutrient 	<p>partnered with Department of Natural Resources (DNR) and University of Maryland (UMD) to develop a model to predict locations of topographical convergence where higher pollutant removal efficiencies are expected from tree planting.</p> <ul style="list-style-type: none"> • The MOTA group has identified the City of Frostburg as a target for stormwater retrofitting. • Impervious area reduction targeting has begun but is not completed. Residents in the floodplain were encouraged to contact the county to request a flood buyout. The County plans to establish a priority list of potential buyouts. • A stream restoration priority list has been created by the MOTA group. • Trees for TMDLs Sub-committee, including BOM staff, conducted field visits to abandoned mine areas as a planning activity. • The Trees for TMDL group has been established and has coordinated with the Department of Natural Resources (DNR), the University of Maryland and the ACDPW to prioritize areas and implement urban tree planting. 	

Allegany County 2012-2013 Milestones Evaluation

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	<p>Management.</p> <ul style="list-style-type: none"> • Perform a cost/benefit analysis to evaluate the feasibility of a street sweeping program if needed. • No explicit strategy mentioned for the elimination of CSOs. 	<ul style="list-style-type: none"> • Allegany County has determined that urban nutrient management will not need to be pursued to meet their WIP goals. County staff will continue to monitor lawn fertilizer laws and incentives. • Allegany County has not determined that street sweeping will need to be pursued to meet their WIP goals. If necessary, Allegany County will partner with smaller jurisdictions to share ideas for implementation. • Elimination of CSOs is ongoing. The City of Cumberland has chosen a capture and treat solution and is currently pursuing funding for construction to store 85% of overflow volume until it can be processed through WWTP. • High 	
Public Engagement	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Although there was no reference to expanding public engagement in the original milestone commitments, numerous public engagement activities have taken place.</p>

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	<ul style="list-style-type: none"> • Low 	<p><i>Programmatic efforts not included in the County's original milestones:</i></p> <ul style="list-style-type: none"> • Local DNR-Forest Service staff has reached out via a mailing in Spring 2013 to property owners of interest to initiate discussion and consideration of tree planting opportunities. • Allegany County has included tree planting days for middle and high-school students. • The City of Cumberland has planted trees with the help of volunteers. • MOTA group reached out to public in a local newspaper article. Residents in the floodplain were again encouraged to contact the County to request a flood buyout. • High 	<ul style="list-style-type: none"> • High
Addresses Appropriate Sectors? (Comprehensiveness)	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • Medium <p>Programmatic efforts in the stormwater sector should be built upon and expanded. The septic systems sector has modest impact on the Bay. The wastewater treatment plant sector has been addressed by ENR upgrades</p>

Allegany County 2012-2013 Milestones Evaluation

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			completed prior to the milestone period.
Stormwater	<ul style="list-style-type: none"> Good commitments were made to enhance funding, organizational and planning functions. Medium 	<ul style="list-style-type: none"> Progress has been made on achieving commitments that support this sector. Medium 	<ul style="list-style-type: none"> Additional effort in this sector should be reflected in future milestones. Medium
Septic Systems	<ul style="list-style-type: none"> No explicit strategy mentioned. Low 	<ul style="list-style-type: none"> No explicit strategy mentioned. Low 	<ul style="list-style-type: none"> The relatively small number of septic systems in Allegany County allows the septic nitrogen loads to be offset by surplus reductions in other areas. The County's impacts on the Bay are reduced due to its location. Medium
Wastewater Plants	None	None	<ul style="list-style-type: none"> Three major wastewater treatment plants (WWTPs) were upgraded between 2006 and 2011, prior to the 2012-2013 Milestone period.
BMP Implementation			Urban tree planting, stream restoration and abandoned mine reclamation are ongoing implementation efforts noted in the County's Programmatic

Allegany County 2012-2013 Milestones Evaluation

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			Milestones status report. Some BMP implementation has exceeded the original milestone goals. The original milestone goals may have been set somewhat low. Final Programmatic Milestone achievements and BMP Implementation Progress for 2012-2013 are both presented in more detail in the " Final 2012-2013 Programmatic Milestones Report-Allegany County " document.

Anne Arundel County 2012-2013 Milestones Evaluation

The County¹ received “High” ratings in most categories of the 2012-2013 Milestones evaluation, as summarized in the following table. Significant commitments were made in the stormwater, septic and wastewater sectors. Substantial progress was made; however, follow-through on many commitments, specifically in the areas of securing legal authorities and public engagement, should be reflected in future milestones.

Summary Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	• High	• High	• High Planning and approval for hiring 8 additional staff represents significant progress. The development of street sweeping contracts and the progress toward developing funding mechanisms are also reflected in the “High” rating.
Legal Authority Enhancements (e.g., new ordinances)	• High	• Medium	• Medium The County proposed significant commitments for enhancing legal authorities related to management of stormwater and onsite disposal systems (OSDS). Most commitments are pending ongoing planning activities.
Organizational Enhancements	• High	• High	• High Numerous thoughtful commitments were developed and pursued. The level of internal and external coordination was outstanding. Although many of the milestones were not met, this category is rated “High” in light of the large number of commitments and significant progress.

¹ Although we routinely make reference to “the County” as if it’s a single entity, it is often shorthand for an amalgam of the county and municipal governments as well as other partners.

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Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Planning/Studies	• High	• High	<ul style="list-style-type: none"> • High <p>The quality and number of original milestones was high, reflecting strong commitment to ongoing and new planning initiatives and studies. In most cases these milestones were either met or surpassed.</p>
Public Engagement	• High	• Medium	<ul style="list-style-type: none"> • Medium <p>Good milestone commitments were identified; however, progress has been modest.</p>
Addresses Appropriate Sectors? (Comprehensiveness)	• High	• High	<ul style="list-style-type: none"> • High <p>Milestones reflect commitments that are comprehensive across the stormwater, septic and wastewater sectors.</p>
BMP Implementation			<p>The County provided a separate BMP implementation milestone progress report, detailing projects and practices designed, underway or completed between July 1, 2011 and June 30, 2013. The report is appended to the Anne Arundel County programmatic milestone status report on the MDE web site.</p>

Detailed Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Planning and approval for hiring 8 additional staff represents significant progress. The development of street sweeping contracts and the progress toward developing funding mechanisms are also reflected in the rating.</p>
Funding	<ul style="list-style-type: none"> • Determine funding methods for new OSDS connections. (Large CIP) • Develop mechanisms and policies to achieve funding. (Large CIP) • Determine an annual funding level for the program implementation. (Small CIP) • In conjunction with the Office of Planning and Zoning, investigate the feasibility of developing a fee in lieu to enable restoration of unstable outfalls. 	<ul style="list-style-type: none"> • In progress. Preliminary discussions have been held for OSDS connection funding. • In progress. Formal recommendations will be developed after the funding mechanisms have been determined. • In progress. The Small CIP Program development task will assist in developing cost estimates for Small CIP Program projects. • The cost to restore unstable outfalls was incorporated into the County's Cost to Comply Analysis in the developing the County's Stormwater Remediation Fee. Funding for 	<ul style="list-style-type: none"> • High

Anne Arundel County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<ul style="list-style-type: none"> • Work in collaboration with watershed organizations to leverage and secure grant funding for implementation projects. • High 	<p>restoration of outfalls has been addressed through the Stormwater Remediation Fee; therefore, a fee in lieu is no longer needed.</p> <ul style="list-style-type: none"> • The Department of Public Works provided in-kind match in addition to letters of support, for applications for grants to fund restoration projects. Grants awarded to these organizations exceeded one million dollars during this reporting period. • High 	
Staff: New or re-assigned	<ul style="list-style-type: none"> • Determine staffing requirements and pursue position authorization within the Department of Public Works, Department of Inspections and Permits, and the Office of Planning and Zoning to support the expected workload. • Develop scope descriptions and tasks for workload to be delegated using staff augmentation contracts. • Determine staffing requirements within the Department of Public Works and the Department of Health 	<ul style="list-style-type: none"> • As the number of contracts and estimated costs per year are more fully developed County departments will project the staffing necessary to support the program. • Once program funding levels have been established, staffing and management plans will be finalized. • Staffing requirements will be directly related to the decisions regarding the annual program funding level. • The County reviewed existing staffing levels and identified a need for 10 new positions to address culvert and closed storm drain inspections as well as closed storm drain maintenance (e.g., inlet cleaning). These new positions 	<ul style="list-style-type: none"> • High

Anne Arundel County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>to support the program.</p> <ul style="list-style-type: none"> • Assess staffing resources and assignments. Develop plan to augment staff as needed. • High 	<p>were requested as part of the County's FY14 budget and 8 of the 10 positions were approved for hiring in this fiscal year.</p> <ul style="list-style-type: none"> • High 	
Contractor Support	<ul style="list-style-type: none"> • Examine the County's current street sweeping program to determine opportunities for expanding the current program to allow monthly sweeping of all curbed roads. • Assess staffing resources and assignments for street sweeping. Develop a plan to augment staff as needed. • High 	<ul style="list-style-type: none"> • During FY14, the County will contract for street sweeping services, for which funding was appropriated via the Watershed Protection and Restoration Fund (WPRF). These services will initially augment the existing County street sweeping program. • The County staff will be augmented by firms under contract to the County to provide street sweeping services. • High 	<ul style="list-style-type: none"> • High
Legal Authority Enhancements (e.g., new ordinances)	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • Medium <p>The County proposed significant commitments for enhancing legal authorities related to management of stormwater and onsite disposal systems (OSDS). Most commitments are pending ongoing planning activities.</p>

Anne Arundel County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<ul style="list-style-type: none"> • Modify the County Code to provide authorization for the Large CIP program. • Review and clarify permitting requirements and legal and administrative policies to connect existing OSDS to public sewer and cluster treatment systems. • Develop new requirements and boundaries for the proposed OSDS Cluster Treatment Areas for incorporation into the Water and Sewer Master Plan. • Pursue new legislation that authorizes mandatory participation by residents and businesses on OSDS. (Large and Small CIP) • Adopt and implement a Stormwater Remediation Fee as required by House Bill 987 by July 1, 2013. • High 	<ul style="list-style-type: none"> • Proposed legislation and/or administrative procedures will be developed after key program elements have been finalized. It is anticipated that these discussions will be finalized in 2014. • Policy and permitting reviews will begin once the implementation approach has been determined. • In progress. Cluster areas have been identified, but specific boundaries still need further development. • New legislation for mandatory participation will be developed after key OSDS program aspects have been finalized. • Anne Arundel County adopted legislation in June 2013 to create a Watershed Protection and Restoration Program, including a Stormwater Remediation Fee. • Medium 	<ul style="list-style-type: none"> • Medium
Organizational Enhancements	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Numerous thoughtful commitments were developed and pursued. The level of</p>

Anne Arundel County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
			internal and external coordination was outstanding. Although many of the milestones were not met, this category is rated "High" in light of the large number of commitments and significant progress.
Internal and External Coordination	<ul style="list-style-type: none"> • Develop Countywide Public Relations Strategy. • The Department of Public Works and the Department of Health will work collaboratively to develop technical standards for new cluster systems capable of nitrogen removal. • Develop a system in coordination with the Department of Health for identifying and prioritizing areas to determine upcoming projects to be performed each year. (Small CIP program) • In conjunction with the Office of Planning and Zoning investigate the feasibility of developing a fee in lieu to 	<ul style="list-style-type: none"> • Not yet developed, but projected to be finalized by December 2014. A Scope Description will be developed if outside resources are used. • Meetings and discussions between DPW and DoH have commenced. • In progress. During 2012 and 2013 information and data files were shared between the Department of Public Works and the Health Department. The Health Department data was integrated in the Small CIP Program development task. • The cost to restore unstable outfalls was incorporated into the County's Cost to Comply Analysis in the developing the County's Stormwater Remediation Fee. Funding for restoration of outfalls has been 	<ul style="list-style-type: none"> • High

Anne Arundel County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<ul style="list-style-type: none"> enable restoration of unstable outfalls. • Develop and execute a Memorandum of Understanding (MOU) with the State Highway Administration (SHA) for coordinated implementation of urban stormwater projects. • Coordinate with Federal/State regulators to reduce permitting time. • Work in conjunction with the Watershed Stewards Academy to establish a Neighborhood Norm Certification Program. • Work in conjunction with the WSA and other watershed organizations to develop protocols for inspecting and maintain projects implemented by NGOs for which load reduction credit is being taken to ensure that they are functioning as designed for pollutant reduction. • The Department of Public Works will work in collaboration with the Office of 	<p>addressed through the Stormwater Remediation Fee; therefore, a fee in lieu is no longer needed.</p> <ul style="list-style-type: none"> • County DPW meets with SHA quarterly to discuss WIP coordination issues and opportunities. After consultation with County and State attorneys it was determined that a formal MOU was not needed. • Anne Arundel has engaged in discussions with Federal/State regulators. As a result of the ongoing effort to address permitting issues, the Corps established a Review Team to work with County to develop an efficient and consistent process for retrofit and restoration permitting. The Corps and the County will present their collective efforts to the Joint Evaluation Team at their March 2014 meeting. • The Watershed Stewards Academy has developed the framework for a “Clean Water Communities” Program. A runoff reduction methodology and outreach material has been developed. A comprehensive homeowner guide to siting, design, installation and maintenance of 6 commonly used 	

Anne Arundel County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>Planning and Zoning and other County agencies to identify and map the Four Tiers of land use categories defined by the Sustainable Growth and Development Act of 2012 by December 31, 2012.</p> <ul style="list-style-type: none"> • Provide local government perspective and assistance to the Maryland Department of Planning in the development of the State's Offset Policy. • High 	<p>residential BMPs has been developed and an accompanying contractor appendix is in development. An online web resource to support this program is in development.</p> <ul style="list-style-type: none"> • The Office of Planning and Zoning and the Department of Inspections & Permits with input from the Department of Public Works have been working with the Severn River Association to pilot inspection and maintenance of community owned stormwater BMPs within the Critical Area of the Severn River Watershed using trained community representatives. A field inspection has been developed and is under review. • In 2012 the County participated in several meetings with staff from the Department of Planning and provided the County's perspective and input on the State's Offset Policy. There have been no recent meetings on this issue. • High 	
Tracking/Reporting	<ul style="list-style-type: none"> • Develop a tracking/reporting system to monitor the progress of OSDS upgrades • Work with the Department of Inspections and Permits to 	<ul style="list-style-type: none"> • A system has not been developed, however discussions have commenced. The county plans to develop a proposed system. • Preliminary discussions have taken 	<ul style="list-style-type: none"> • Medium

Anne Arundel County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>develop a standard operating procedure for capturing and tracking load reductions associated with reforestation and afforestation projects.</p> <ul style="list-style-type: none"> • Develop tracking and reporting mechanisms in conjunction with the Office of Planning and Zoning to account for growth or reduction in loads from new development, redevelopment, and revitalization areas. • High 	<p>place between WIP staff in the DPW and Forestry staff in the Department of Inspections and Permits to begin developing a tracking system of reforestation and afforestation projects.</p> <ul style="list-style-type: none"> • The DPW has established routine coordination with the County's Office of Planning and Zoning. This coordination will ensure that programmed WPRP projects are taken into account during the development review process and that any opportunities or impacts from new development are understood and addressed. • Medium 	
New Programs	<ul style="list-style-type: none"> • Work with the Department of Inspections and Permits to determine the feasibility of creating a Rural Residential Reforestation Program. • Engage the South River Federation in the development of a Phase II WIP for the South River Watershed to serve as a pilot for other watershed specific WIPs in AA County. • Implement a stream buffer 	<ul style="list-style-type: none"> • The County evaluates individual properties as opportunities arise for preservation or reforestation in rural residential areas. Although a formal Rural Residential Reforestation Program has not been developed to date, the County is in the process of negotiating with property owners for the acquisition of four (4) separate properties totaling approximately 50 acres in the Critical Area to preserve existing woodlands and provide 	<ul style="list-style-type: none"> • Medium

Anne Arundel County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>planting program on county land adjacent to creeks, streams and rivers.</p> <ul style="list-style-type: none"> • High 	<p>opportunity for the implementation of larger scale reforestation efforts.</p> <ul style="list-style-type: none"> • The South River Federation (SRF) has developed the capacity to fund, design and construct restoration projects, and has developed a strategic implementation plan for restoring South River. The County and SRF have developed a MOU template for restoration projects through which the Federation conveys load reduction credits to the County in exchange for long term maintenance by the County. • Progress on the stream buffer planting program is tied to the milestone for developing a short term and long term reforestation plan that identifies areas appropriate for planting. The Department of Inspections and Permits has worked with the Department of Public Works to augment plantings on stream stabilization and outfall rehabilitation projects. <p>Medium</p>	
Program Enhancements	<ul style="list-style-type: none"> • Explore incentive systems for individual homeowners to increase interest in voluntary participation. (Small CIP program) 	<ul style="list-style-type: none"> • Incentive systems and public outreach will be topics for discussion in coordination meetings with the Health Department. • Runoff reduction methodology and 	<p>Medium</p>

Anne Arundel County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<ul style="list-style-type: none"> • Work in conjunction with the Watershed Stewards Academy to establish a Neighborhood Norm Certification Program. This initiative will expand and extend the WSA by deploying an army of trained, certified, and motivated master Watershed Stewards to create a paradigm shift in behavior and land use within neighborhoods to reduce pollution at its source. • Develop new policies and procedures to minimize construction of new systems in management areas designated as high priority for conversion to point source treatment. (Septic Private Sector Facilitated Upgrades PSFU) • Develop new policies to further reduce nutrient loading from future OSDS. • High 	<p>outreach material have been developed. Piloting is underway in Hillsmere in the Duvall Creek Watershed of the South River, with 14 BMPs scheduled for installation in Spring 2014. An online web resource to support this program is in development.</p> <ul style="list-style-type: none"> • Initial meetings have been conducted to address components of the Water and Sewer Master Plan. Now that the County's Growth Tiers have been developed further progress on this milestone will be made.(PSFU) • Internal meetings to discuss additional policies to encourage further OSDS load reductions will be held in 2014. • Medium 	
Planning/Studies	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>The quality and number of original milestones was high,</p>

Anne Arundel County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
			reflecting strong commitment to ongoing and new planning initiatives and studies. In most cases these milestones were either met or surpassed.
	<ul style="list-style-type: none"> • Develop a system in coordination with the Department of Health for identifying and prioritizing areas to determine upcoming projects to be performed each year. (Small CIP program) • As needed, develop and implement updates to the inventory of developed accounts served by an on-site sewage disposal system. This inventory is critical to the assessment of the State's Flush Fee, and to ensure accurate accounting of NRU and BAT units installed for tracking purposes. • Identify, prioritize, and establish a timeline for joint SHA/AACo implementation projects. 	<ul style="list-style-type: none"> • In progress. During 2012 and 2013 information and data files were shared between the DPW and the Health Department. The Health Department data was integrated in the Small CIP Program development task. A prioritization system will be discussed in 2014. • The Health Department continued to develop and perform quarterly updates to accurately assess the inventory of developed parcels served by an on-site sewage disposal system. • SHA and Anne Arundel County are currently identifying and mapping potential projects for joint implementation. GIS data layers have been shared and a composite map of County and SHA WIP implementation projects has been developed. <p>Prioritization will be discussed during</p>	<ul style="list-style-type: none"> • High

Anne Arundel County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<ul style="list-style-type: none"> • Develop a short term and long term reforestation plan that identifies areas appropriate for planting. • Work with the Department of Inspections and Permits to determine the feasibility of creating a Rural Residential Reforestation Program. • In conjunction with other county agencies develop a methodology for identifying and prioritizing those areas where maximizing stormwater management of currently undermanaged sites is feasible and cost effective. • Work in conjunction with the WSA and other watershed organizations to develop protocols for inspecting and maintain projects implemented by NGOs for which load reduction credit is being taken to ensure that they are functioning as designed for pollutant reduction. • Continue investigating options for nutrient trading as a tool to 	<p>in 2014.</p> <ul style="list-style-type: none"> • The Department of Inspections and Permits is finalizing an Urban Tree Canopy Project, which will set forth an implementation plan for increasing forest cover in urban areas of the County. • Although a formal Rural Residential Reforestation Program has not been developed to date, the County assesses properties and conducts negotiations as opportunities arise for reforestation. • The County has identified and prioritized subwatersheds most in need of restoration. Opportunities for managing impervious area and achieving pollutant load reduction have been identified within each of the high priority subwatersheds. • The Office of Planning and Zoning and the Department of Inspections & Permits with input from the DPW have been working with the Severn River Association to pilot inspection and maintenance of community owned stormwater BMPs within the Critical Area of the Severn River Watershed using trained community representatives. A field inspection has 	

Anne Arundel County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>offset future loads from new development.</p> <ul style="list-style-type: none"> • Examine the County's current street sweeping program to determine opportunities for expanding the current program to allow monthly sweeping of all curbed roads. • High 	<p>been developed and is under review.</p> <ul style="list-style-type: none"> • Investigation of options for nutrient trading to offset future loads from new development is ongoing. • Progress unclear: Currently, the County is targeting those curbed roads with high traffic volumes or outfalls that discharge to and/or touch a tidal or non-tidal water body, with the Patapsco River Watershed slated to be a priority street sweeping area given the Baltimore Harbor Trash TMDL. • High 	
Public Engagement	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • Medium <p>Good milestone commitments were identified; however, progress has been modest.</p>
	<ul style="list-style-type: none"> • Develop Countywide Public Relations Strategy. • Explore incentive systems for individual homeowners to increase interest in voluntary participation. • Develop a public outreach program to notify neighborhoods of upcoming projects. 	<ul style="list-style-type: none"> • It is anticipated that this strategy will be developed as part of the staffing and management plan. The target date for completing a written draft of this strategy is December 2014. • Incentive systems and public outreach will be topics for discussion in coordination meetings with the Health Department. • New public outreach program 	<ul style="list-style-type: none"> • Medium

Anne Arundel County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<ul style="list-style-type: none"> • Continue to educate Anne Arundel county residents and businesses on proper maintenance of an on-site sewage disposal system; continue to recommend septic tank inspections. • High 	<p>development has not started.</p> <ul style="list-style-type: none"> • Public education is ongoing. • Medium 	
Addresses Appropriate Sectors? (Comprehensiveness)	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Milestones reflect commitments that are comprehensive across the stormwater, septic and wastewater sectors.</p>
Stormwater	<ul style="list-style-type: none"> • Milestone commitments for stormwater addressed many facets of capacity-building including enhancing resources, planning, program development, and internal and external stakeholder coordination. • High 	<ul style="list-style-type: none"> • Although some commitments are not completed, significant progress has been achieved for most of the commitments. • High 	<ul style="list-style-type: none"> • High
Septic Systems	<ul style="list-style-type: none"> • Milestone commitments for the septic system sector addressed many facets of capacity-building including enhancing resources, planning, program 	<ul style="list-style-type: none"> • Although some commitments are not completed, significant progress has been achieved for most of the commitments. • High 	<ul style="list-style-type: none"> • High

Anne Arundel County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>development, and internal and external stakeholder coordination.</p> <ul style="list-style-type: none"> • High 		
Wastewater Plants	<ul style="list-style-type: none"> • Obtain a strategy approval for ENR upgrades to the Mayo Water Reclamation Facility (WRF). • High 	<ul style="list-style-type: none"> • A strategy approval was obtained. • High 	<ul style="list-style-type: none"> • High <p>Additional ENR upgrades were completed that were not part of the programmatic milestones.</p>
BMP Implementation			<p>The County provided a separate BMP implementation milestone progress report, detailing projects and practices designed, underway or completed between July 1, 2011 and June 30, 2013. The report is appended to the Anne Arundel County programmatic milestone status report on the MDE web site.</p>

Baltimore City 2012-2013 Milestones Evaluation

Baltimore City received “High” ratings in most categories of the 2012-2013 Milestones evaluation, as summarized in the following table. The overall rating reflects acknowledgement of a large number of commitments to enhance stormwater program functions, even though achievement of many of those commitments remains in progress. The focus on stormwater reflects the facts that the City has very few septic systems and that wastewater upgrades are in progress. Public engagement efforts and follow-through on meeting unfulfilled commitments to organizational enhancements should be reflected in future milestones.

Summary Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	• High	• High	<ul style="list-style-type: none"> • High <p>Commitments to add 3 FTEs, initiate a stormwater fee and increase consulting contract capacity represent significant resource enhancements.</p>
Legal Authority Enhancements, (e.g., new ordinances)	• High	• High	<ul style="list-style-type: none"> • High <p>The commitment to adopt a stormwater fee and formal guidance manuals represents significant enhancements.</p>
Organizational Enhancements	• High	• High	<ul style="list-style-type: none"> • High <p>Numerous commitments were made to organizational enhancements. Although many activities remain in development, the progress is rated “High” in light of the large number of commitments.</p>
Planning/Studies	• High	• High	<ul style="list-style-type: none"> • High <p>Although many planning activities and studies remain in development, the progress is rated “High” in light of the large number of commitments.</p>
Public Engagement	• Low	• Low	<ul style="list-style-type: none"> • Low <p>No public outreach or engagement milestones were identified.</p>

Baltimore City 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Addresses Appropriate Sectors? (Comprehensiveness)	• High	• High	<ul style="list-style-type: none"> • High <p>Only the stormwater sector warrants milestone commitments, because the City has very few septic systems and waste water plant upgrades are in progress. Although many stormwater milestone activities remain in development, the progress is rated "High" in light of the large volume of commitments.</p>
BMP Implementation			<p>Items identified in the Baltimore City Milestones Status Report as BMP Implementation Milestones are actually implementation <i>planning</i> initiatives and thus are included in this evaluation as programmatic milestones. The City's BMP implementation is submitted separately to MDE for annual progress reporting.</p>

Detailed Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Commitments to add 3 FTEs, initiate a stormwater fee and increase consulting contract capacity represent significant resource enhancements.</p>
Funding	<ul style="list-style-type: none"> • Introduce bill to City Council to adopt a stormwater fee to provide sustainable funding for TMDL compliance projects. If adopted, implement the fee. • High 	<ul style="list-style-type: none"> • Complete. Ordinance 12-0155 approved prior to July 2013. • High 	
Staff: New or re-assigned	<ul style="list-style-type: none"> • Increase staff of SWMD – Environmental Engineering Section by 1 FTE to manage CIP projects. • Increase staff of SWMD – Plans Review Section by 2 FTE to review anticipated CIP projects and stormwater fee credit applications. • High 	<ul style="list-style-type: none"> • In progress. Candidate selection still ongoing. One engineer was hired, but then one left. Supervisor was hired Dec. 23, 2013 and replacement engineer is set for spring 2014. • High 	<ul style="list-style-type: none"> • High
Contractor Support	<ul style="list-style-type: none"> • Additional engineering consulting contracts will be 	<ul style="list-style-type: none"> • Program management engineering consultant initiated in December 	<ul style="list-style-type: none"> • High

Baltimore City 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>initiated.</p> <ul style="list-style-type: none"> • High 	<p>2013 to have work start by June 2014.</p> <ul style="list-style-type: none"> • High 	
Legal Authority Enhancements (e.g., new ordinances)	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>The commitment to adopt a stormwater fee and formal guidance manuals represents significant enhancements.</p>
	<ul style="list-style-type: none"> • Finalize and distribute updated Stormwater Management Guidelines for City, which interpret stormwater ordinance and provide design guidance. Provide training sessions to City staff and private developer community. • Introduce bill to City Council to adopt a stormwater fee to provide sustainable funding for TMDL compliance projects. If adopted, implement the fee. • Update Zoning Code to encourage smart growth. • Approve the City's Landscape Manual that integrates ESD practices within landscape areas. • High 	<ul style="list-style-type: none"> • In progress. Application forms complete. Full guidance document scheduled for spring 2014. • Complete. Ordinance 12-0155 approved prior to July 2013. • Zoning code updates in progress. Part of Transform Baltimore. Legislation was introduced in Spring 2013. Anticipate adoption by 2015. • Landscape Manual in progress. Part of Transform Baltimore. • High 	<ul style="list-style-type: none"> • High

Baltimore City 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Organizational Enhancements	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Numerous commitments were made to organizational enhancements. Although many activities remain in development, progress is rated “High” in light of the large number of commitments.</p>
Internal and External Coordination	<ul style="list-style-type: none"> • Initiate WIP Task Force. • Medium 	<ul style="list-style-type: none"> • Postponed to June 2014 based on receipt of MS4 permit in December 2013. <p><i>Programmatic efforts not included in City’s original milestones:</i></p> <ul style="list-style-type: none"> • Coordination with DPW and DOT to develop bio-inlet. • Coordination with the Urban Waters Federal Partnership and Baltimore Ecosystem Study on benefits of load reduction options. • Feasibility study on use of recycled materials for use in BMPs has been initiated via coordinated effort with Office of Sustainability and US Forest Service. • High 	<ul style="list-style-type: none"> • High <p>Although initial commitments to coordination efforts were modest, significant coordination efforts have been made.</p>

Baltimore City 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Tracking/Reporting	<ul style="list-style-type: none"> • Develop Access database and GIS tracking tool for all proposed and constructed BMPs. • High 	<ul style="list-style-type: none"> • In progress. Delayed due to available funding and coordinated efforts with MDE reporting requirements. Completion anticipated within first year of the MS4 permit. • Medium 	<ul style="list-style-type: none"> • Medium
New Programs	<ul style="list-style-type: none"> • Develop work plan for implementing a stormwater offset banking system which will allow developers or other third parties to construct stormwater BMPs and earn “credits” that can be sold to developers who cannot meet existing on-site stormwater management requirements; thereby creating a new commodity in land acquisition and development. • Initiate WIP Task Force. • High 	<ul style="list-style-type: none"> • Complete. Grant-funded work was complete in December 2013 but more work / interest is needed. Simple banks have been established for city agencies. More complex systems will be explored for private developers in 2014. • Postponed to June 2014 based on receipt of MS4 permit in December 2013. • Medium 	<ul style="list-style-type: none"> • Medium
Program Enhancements	<ul style="list-style-type: none"> • Develop standardized designs and supporting calculations for ESD practices to facilitate project reviews and decrease design costs. • Approve the City’s Landscape Manual that integrates ESD 	<ul style="list-style-type: none"> • Bio-inlet developed in coordination between DPW and DOT. Project selection criteria developed as part of the Green Pattern Book, with technical details scheduled to be completed as on-going progress, following the actual implementation 	<ul style="list-style-type: none"> • Medium

Baltimore City 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>practices within landscape areas.</p> <ul style="list-style-type: none"> • Develop Facility Greening expedited review process and guidance documents as an incentive for private participation in impervious area removal. • High 	<p>(and lessons learned) of projects in the City and surrounding Counties.</p> <ul style="list-style-type: none"> • Landscape manual in progress. Part of Transform Baltimore. • In progress. Will be covered as “restoration projects” in Guidance document. • Medium 	
Planning/Studies	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Although many planning activities and studies remain in development, the progress is rated “High” in light of the large number of commitments.</p>
	<ul style="list-style-type: none"> • Participate in research to quantify benefits of proposed methods for load reductions. • Initiate Growing Green Initiative • Complete investigation / study, initiate design and possibly permitting of several specific Stream restoration, ESD, impervious removal and urban tree planting projects. • Develop Facility Greening expedited review process and 	<ul style="list-style-type: none"> • In coordination with the Urban Waters Federal Partnership and Baltimore Ecosystem Study. Specific research focuses were identified by December 2013. Will be on-going throughout TMDL implementation process. • Not started. Growing Green Initiative is currently at the inter-agency level for the City. Demonstration projects are in the planning stage. • BMP investigation not started. 	<ul style="list-style-type: none"> • High

Baltimore City 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>guidance documents as incentive for private participation in impervious area removal.</p> <ul style="list-style-type: none"> • Complete Watershed Assessment report for Direct Harbor Watershed. • Develop work plan for implementing a storm-water offset banking system which will allow developers or other third parties to construct stormwater BMPs and earn “credits” that can be sold to developers who cannot meet existing on-site stormwater management requirements; thereby creating a new commodity in land acquisition and development. • Complete feasibility study for the use of recycled materials in BMP construction as a sustainable alternative to material disposal. • Develop Facility Greening expedited review process and guidance documents as incentive for private 	<p>Delayed due to available funding and pending the receipt of the MS4 permit. Anticipate completion within first year of the MS4 permit.</p> <ul style="list-style-type: none"> • Greening Facility expedited review process in progress. Will be covered as “restoration projects” in Guidance document. • In progress. Delayed due to available funding and coordination of contracts. Anticipate completion by December 2014. • Offset banking plan complete. Grant-funded work was complete in December 2013 but more work/interest is needed. Simple banks have been established for city agencies. More complex systems will be explored for private developers in 2014. • Greening Facility expedited review process in progress. • Feasibility studies and guidance development for Adopt-the-Green and STORM centers in progress. • Feasibility study on use of recycled materials has been initiated via coordinated effort with Office of Sustainability and US Forest Service. 	

Baltimore City 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<ul style="list-style-type: none"> participation in impervious area removal. • Complete feasibility studies for private participation incentive programs, such the Adopt-the-Green program and STORM centers. • Complete feasibility study for the use of recycled materials in BMP construction as a sustainable alternative to material disposal. • High 	<p>This will be part of STORM center evaluation.</p> <ul style="list-style-type: none"> • High 	
Public Engagement	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • Low <p>No public engagement milestones or activities were identified.</p>
Addresses Appropriate Sectors? (Comprehensiveness)	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Only the stormwater sector warrants milestone commitments, because the City has very few septic systems and waste water plant upgrades are in progress. Although many stormwater milestone activities remain in development, the progress is rated</p>

Baltimore City 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
			"High" in light of the large number of commitments
Stormwater	<ul style="list-style-type: none"> • Significant milestone commitments were made. • High 	<ul style="list-style-type: none"> • Significant progress has been made on planning, internal and external coordination, increased staffing and funding and program enhancement milestone commitments. • WIP for MS4 compliance postponed to December 2014 based on receipt of MS4 permit in December 2013. • Received NPDES Phase I MS4 Permit December 27, 2013. • Application forms complete. Full guidance document scheduled for spring 2014. • Grant-funded work was complete in December 2013 but more work / interest is needed. Simple banks have been established for city agencies. More complex systems will be explored for private developers in 2014. • High 	<ul style="list-style-type: none"> • High <p>Although many activities remain in development, the progress is rated "High" in light of the large volume of commitments.</p>
Septic Systems	<ul style="list-style-type: none"> • None 	<ul style="list-style-type: none"> • None 	The City has very few septic systems.
Wastewater Plants	<ul style="list-style-type: none"> • None 	<ul style="list-style-type: none"> • None 	ENR upgrades to major wastewater treatment plants are in progress.

Baltimore City 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
BMP Implementation			Items identified in the <u>Baltimore City Milestones Status Report</u> as BMP Implementation Milestones are actually implementation <i>planning</i> initiatives and thus are included in this evaluation as programmatic milestones. The City's BMP implementation is submitted separately to MDE for annual progress reporting.

Baltimore County 2012-2013 Milestones Evaluation

The County¹ received “High” ratings in most categories of the 2012-2013 Milestones evaluation, as summarized in the following table. The stormwater sector has made good progress by enhancing organizational and planning functions. Significant commitments and progress were made in the septic system sector to enhance legal authorities, planning, tracking and public outreach. The wastewater sector is not addressed, as major treatment plant upgrades are in progress. Going forward, the original commitments to planning activities and studies that have not been completed should be reflected in future milestones.

Summary Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	• Medium	• High	<ul style="list-style-type: none"> • High <p>Significant progress is represented by the adoption of a stormwater remediation fee to generate funding.</p>
Legal Authority Enhancements (e.g., new ordinances)	• High	• High	<ul style="list-style-type: none"> • High <p>Septic connection legal mechanisms have been investigated and a stormwater fund and fee system adopted.</p>
Organizational Enhancements	• High	• High	<ul style="list-style-type: none"> • High <p>Strong internal and external coordination. Good commitment toward the development and implementation of various tracking/reporting systems.</p>
Planning/Studies	• High	• Medium	<ul style="list-style-type: none"> • Medium <p>Some of the original milestones have been achieved. A more robust commitment toward completing the remaining goals should be reflected in future milestones.</p>
Public Engagement	• Medium	• Medium	<ul style="list-style-type: none"> • Medium <p>Outreach and education programs on septic pump-outs have been developed.</p>

¹ Although we routinely make reference to “the County” as if it’s a single entity, it is often shorthand for an amalgam of the county and municipal governments as well as other partners.

Baltimore County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Addresses Appropriate Sectors? (Comprehensiveness)	• High	• High	<ul style="list-style-type: none"> • High <p>The “High” rating in this category reflects the substantive quality of the initial goals. The stormwater and septic sectors are making progress. The wastewater sector is not addressed, as major treatment plant upgrades are in progress.</p>
BMP Implementation			<p>In its Phase II WIP, the County set 2-year reduction targets for urban stormwater and septic systems (wastewater and agriculture sectors are addressed separately). Good progress was reported toward meeting load reduction targets for urban stormwater; targets for septic exceeded. Final Programmatic Milestone achievements and BMP Implementation Progress for 2012-2013 are both presented in detail in the Baltimore County 2014-2105 Milestones document (pp. 4-16).</p>

Detailed Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Significant progress is represented by the adoption of a stormwater remediation fee to generate funding.</p>
Funding	<ul style="list-style-type: none"> • Work with the State of Maryland to develop adequate mechanisms to fund the increased restoration pace and the staff needed to meet the urban stormwater reduction allocations by 2025. • Develop a reforestation program funded through capital funds. • High 	<ul style="list-style-type: none"> • Stormwater Remediation Fee has been developed and is being implemented. • Not initiated yet, will assess during the next year. • High 	<ul style="list-style-type: none"> • High
Staff: New or re-assigned	<ul style="list-style-type: none"> • No commitment identified. • Low 	<ul style="list-style-type: none"> • Staffing as a result of the Stormwater Utility Fee is gearing up. • High 	<ul style="list-style-type: none"> • High
Contractor Support	<ul style="list-style-type: none"> • None 	<ul style="list-style-type: none"> • None 	
Legal Authority Enhancements (e.g., new ordinances)	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Septic connection legal mechanisms have been investigated and a stormwater fund and fee system adopted.</p>

Baltimore County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<ul style="list-style-type: none"> • Work with the State of Maryland to develop adequate mechanisms to fund the increased restoration pace and the staff needed to meet the urban stormwater reduction allocations by 2025. • Investigate the legal mechanisms for requiring households on OSDS within the URDL to connect to the sanitary sewer system. • High 	<ul style="list-style-type: none"> • Fund and fee systems adopted for stormwater program. • Investigation of the legal mechanisms for requiring households on OSDS completed. • High 	<ul style="list-style-type: none"> • High
Organizational Enhancements	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Strong internal and external coordination. Good commitment toward the development and implementation of various tracking/reporting systems.</p>
Internal and External Coordination	<ul style="list-style-type: none"> • Work with the State of Maryland to develop adequate mechanisms to fund the increased restoration pace and the staff needed to meet the urban stormwater reduction allocations by 2025. • Work with MDE, Baltimore 	<ul style="list-style-type: none"> • Stormwater Remediation Fee has been developed and is being implemented. • Not initiated yet. Not sure if it is necessary to develop a Trading – In – Time Program. Will seek further clarification from the State during the one-on-one meetings being scheduled. • Membership on Expert Panel, which 	<ul style="list-style-type: none"> • High

Baltimore County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>City, Anne Arundel County, and Howard County to define each jurisdiction's share of the remaining capacity of the WWTPs, refine the concept of Trading-In-Time and develop formal agreements, if it is determined that the contingency is needed to meet the overall nutrient reductions.</p> <ul style="list-style-type: none"> • Continue working with the Chesapeake Bay Program – Urban Stormwater Workgroup expert panel to determine new stream restoration pollutant load reduction credits. • Coordinate between the Departments of Public Works and Environmental Protection and Sustainability to target street sweeping and storm drain cleaning in neighborhoods identified through the Neighborhood Source Assessment in Small Watershed Action Plans (SWAP) • Continue to work with the Farm Trust to determine if 	<p>completed a Stream Restoration report. Baltimore County also worked on the Approved Retrofit Accounting, and is currently working on the following expert panels: Illicit Connection, Shoreline Erosion Control, Urban Vegetative Filter Strips, Floating Wetlands and Street Sweeping.</p> <ul style="list-style-type: none"> • Watershed Managers are preparing a listing of neighborhoods identified during SWAP development that could benefit from additional street sweeping. This listing will be coordinated with DPW. • Continuing coordination with Farm Trust, although there has been no recent activity. • Baltimore County is a member of the Urban Stormwater and Land Use Workgroups that are working on these issues. • On-going with coordination between EPS– Groundwater Section and staff from the Metropolitan District. • High 	

Baltimore County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>there are pollutant load reduction credits associated with Preservation Programs</p> <ul style="list-style-type: none"> • Continue to work with the State and the Chesapeake Bay Program to find solutions to the Watershed Model technical and data deficiencies • Investigate households within the URDL that are indicated as being on OSDS to determine the correctness of the designation. • High 		
Tracking/Reporting	<ul style="list-style-type: none"> • Develop tracking and reporting mechanisms for redevelopment and revitalization to assess load reductions. • Develop tracking and report mechanisms for green field development to assess load increases. • Improve tracking of OSDS connections to the sanitary sewer and OSDS pump-outs. • High 	<ul style="list-style-type: none"> • An initial tracking mechanism has been developed and is being implemented. Need to further assess mechanism for efficiency. • Superseded by the State - Accounting for Growth Offset Policy and Regulations currently in development. Will need to address load increases due to new development in the period prior to implementation of the AfG Policy. • Tracking mechanism has been developed and is being initiated. • High 	<ul style="list-style-type: none"> • High

Baltimore County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
New Programs	<ul style="list-style-type: none"> Develop a reforestation program funded through capital funds. High 	<ul style="list-style-type: none"> Reforestation program not initiated yet; will assess during the next year. Low 	<ul style="list-style-type: none"> Low
Program Enhancements	<ul style="list-style-type: none"> Target neighborhoods for street sweeping and storm drain cleaning. Medium 	<ul style="list-style-type: none"> Enhancement of street sweeping program. Enhancement of stormwater program by adoption of fee. High 	<ul style="list-style-type: none"> High
Planning/Studies	<ul style="list-style-type: none"> High 	<ul style="list-style-type: none"> High 	<ul style="list-style-type: none"> Medium <p>Some of the original milestones have been achieved. A more robust commitment toward completing the remaining goals should be reflected in future milestones.</p>
	<ul style="list-style-type: none"> Work with MDE, Baltimore City, Anne Arundel County, and Howard County to refine concept of Trading-In-Time and develop formal agreements, if it is determined that the contingency is needed to meet the overall nutrient reductions. Develop a reforestation program funded through capital funds. 	<ul style="list-style-type: none"> Not initiated yet. Not sure if it is necessary to develop a Trading-in-Time Program. Will seek further clarification from the State during the one-on-one meetings being scheduled. Reforestation program not initiated yet; will assess during the next year. Watershed Managers are preparing a listing of neighborhoods identified during SWAP development that could benefit from additional street sweeping. 	<ul style="list-style-type: none"> Medium

Baltimore County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<ul style="list-style-type: none"> • Target neighborhoods for street sweeping and storm drain cleaning. • Continue to explore the possibility of pollutant load reduction credits as a result of Baltimore County's land use planning through the implementation of the 2020 Master Plan. • Conduct detailed parcel analysis between data used in MDE Report and Baltimore County data. • Investigate households within the Chesapeake Bay Critical Area (CBCA) that are indicated as being on OSDS to determine the correctness of the designation. • Investigate households within the URDL that are indicated as being on OSDS to determine the correctness of the designation. • High 	<ul style="list-style-type: none"> • Baltimore County is a member of the Chesapeake Bay Program – Land Use Work group that will explore these issues. • Parcel analysis completed. • Investigation of CBCA designations complete. • Investigation of URDL designations is on-going with coordination between EPS – Groundwater Section and staff from the Metropolitan District. • Medium 	

Baltimore County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Public Engagement	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • Medium <p>Outreach and education programs on septic pump-outs have been developed</p>
	<ul style="list-style-type: none"> • Develop outreach and education programs on the value of OSDS pump-outs with the intention of increasing the pump-out rate from 21.5% to 33.3% or once every three years on average. • Medium 	<ul style="list-style-type: none"> • Completed. • Medium 	<ul style="list-style-type: none"> • Medium
Addresses Appropriate Sectors? (Comprehensiveness)	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>The “High” rating in this category reflects the good quality of the initial goals. The stormwater and septic sectors are making progress. The wastewater sector is not addressed, as major treatment plant upgrades are in progress.</p>
Stormwater	<ul style="list-style-type: none"> • Significant commitments were made to enhance organizational and planning functions. • High 	<ul style="list-style-type: none"> • Significant progress was made on achieving the commitments. • High 	<ul style="list-style-type: none"> • High
Septic Systems	<ul style="list-style-type: none"> • Significant commitments were made to enhance legal 	<ul style="list-style-type: none"> • Progress has been made and several commitments are not complete. 	<ul style="list-style-type: none"> • Medium

Baltimore County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	authorities, planning, tracking and public outreach. <ul style="list-style-type: none">• High	<ul style="list-style-type: none">• Medium	
Wastewater Plants	<ul style="list-style-type: none">• None	<ul style="list-style-type: none">• None	<ul style="list-style-type: none">• None• Upgrades of major municipal treatment plants that serve the County are in progress.
BMP Implementation			In its Phase II WIP, the County set 2-year reduction targets for urban stormwater and septic systems (wastewater and agriculture sectors are addressed separately). Good progress was reported toward meeting load reduction targets for urban stormwater; targets for septic exceeded. Final Programmatic Milestone achievements and BMP Implementation Progress for 2012-2013 are both presented in detail in the Baltimore County 2014-2105 Milestones document (pp. 4-16).

Baltimore County 2012-2013 Milestones Evaluation

Calvert County 2012-2013 Milestones Evaluation

The County¹ received a mix of “Medium” and “Low” ratings for the categories of the 2012-2013 Milestones evaluation, as summarized in the following table. Good progress was made in the wastewater sector by acquiring funds for a WWTP upgrade. However, most of the original milestones were not met in the stormwater and septic sectors. Future milestones should reflect a more robust commitment toward these sectors. Additionally, there was inadequate progress on organizational and legal authority enhancements, as well as public engagement.

Summary Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comment/Notes
Resource Enhancements	• Medium	• Medium	• Medium Good progress was made to enhance funding, but no action was taken to address commitments to increase staff.
Legal Authority Enhancements (e.g., new ordinances)	• High	• Medium	• Medium Good commitments were established. Formal consideration was given to a stormwater fee, which is still under review.
Organizational Enhancements	• Low	• Low	• Low The two Tracking/ Reporting milestones were not achieved. Some coordination and tracking efforts were accomplished that were not identified in the original milestones.
Planning/Studies	• Medium	• Medium	• Medium Planning for WWTP connections and stormwater retrofits shows good progress. Pursuit of an alternate strategy to developing sub-watershed WIPs should be reflected in future milestones.
Public Engagement	• Low	• Low	• Low Modest programmatic milestone was not met. A stronger commitment is needed in the future.

¹ Although we routinely make reference to “the County” as if it’s a single entity, it is often shorthand for an amalgam of the county and municipal governments as well as other partners

Calvert County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comment/Notes
Addresses Appropriate Sectors? (Comprehensiveness)	• High	• Low	<ul style="list-style-type: none"> • Low <p>A more robust commitment toward milestone completion should be reflected in the future for the stormwater and septic sectors. Good progress on wastewater plants through the acquisition of funds for an ENR upgrade.</p>
BMP Implementation			<p>Final Programmatic Milestone achievements and BMP Implementation Progress for 2012-2013 are both documented in the <u>Draft Calvert County Watershed Implementation Plan Two-Year Milestone Report</u>.</p>

Detailed Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comment/Notes
Resource Enhancements	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • Medium <p>Good progress was made to enhance funding, but no action was taken on commitments to increase staff.</p>
Funding	<ul style="list-style-type: none"> • Pursue funding sources for the ENR upgrade to Chesapeake Beach WWTP (CBWWTP). • Consider funding sources for the connection of the Naval Research Laboratory (NRL) to the CBWWTP. • Medium 	<ul style="list-style-type: none"> • Funding has been secured from the Maryland Department of the Environment Water Quality Loan Fund as well as from capital connections. • No update has been provided. <p><i>Programmatic initiatives not included in County's original milestones:</i></p> <ul style="list-style-type: none"> • Funding secured for the Calvert County Industrial Park Connection to Prince Frederick Waste Water Treatment Plant. The project will be paid for by County Bond funding and will be paid back by user fees. • Funding secured from the Board of Education (BOE) for upgrading the Northern High School WWTP. • Funding secured from the BOE for the design and connection of the Huntingtown High School to the Marley Run WWTP. 	<ul style="list-style-type: none"> • High

Calvert County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comment/Notes
		<ul style="list-style-type: none"> • Received funding from the BRF to install pretreatment septic systems. • The Office of Public Works has begun seeking outside funding sources through private grants. This Department in conjunction with local community organizations has submitted grant requests for funding for (5) projects within the County. We are awaiting the results of these requests. • The Office of Public Works has begun seeking outside funding sources through private grants. This Department in conjunction with local community organizations has submitted grant requests for funding for (5) projects within the County. • High 	
Staff: New or re-assigned	<ul style="list-style-type: none"> • Hire two (2) additional staff people to implement the septic system upgrades. • Hire three (3) additional staff people to implement stormwater management aspects of the Phase II WIP; One staff person to review projects, one staff person to inspect projects and one person to 	<ul style="list-style-type: none"> • The programmatic milestones for upgrading septic systems were not initiated due to high costs; as a result, proposed hiring did not occur. • No update on proposed hiring in stormwater sector has been provided. • Low 	<ul style="list-style-type: none"> • Low

Calvert County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comment/Notes
	<p>administer the stormwater management impact fee and identify projects.</p> <ul style="list-style-type: none"> • High 		
Contractor Support	<ul style="list-style-type: none"> • None 	<ul style="list-style-type: none"> • None 	<ul style="list-style-type: none"> • None
Legal Authority Enhancements (e.g., new ordinances)	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • Medium <p>Good commitments were established. Formal consideration was given to a stormwater fee, which is still under review.</p>
	<ul style="list-style-type: none"> • Pass septic system upgrade legislation requiring septic system upgrades to advanced treatment at “time of sale” and if septic system fails. New and repaired septic systems to be advanced systems. • Pass a stormwater management impact fee. • High 	<ul style="list-style-type: none"> • No update indicating legislative action was provided. • Not accomplished. The Board of County Commissioners thought that a stormwater utility was too expensive and wants to receive the University of Maryland Environmental Finance Center (EFC) report before considering the proposed programmatic changes. • Medium 	<ul style="list-style-type: none"> • Medium

Calvert County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comment/Notes
Organizational Enhancements	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • Low <p>The two Tracking/Reporting milestones were not achieved. Some coordination and tracking efforts were accomplished that were not identified in the original milestones.</p>
Internal and External Coordination	<ul style="list-style-type: none"> • Low 	<p><i>Programmatic initiatives not included in County's original milestones:</i></p> <ul style="list-style-type: none"> • Calvert County met with the University of Maryland Environmental Finance Center (UMEFC) to discuss applying for a grant to do a fiscal analysis of the County WIP to try to develop a less costly plan to meet the required reductions. • We are also trying to team up with other organizations that do environmental restoration. • Low 	<ul style="list-style-type: none"> • Low

Calvert County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comment/Notes
Tracking/Reporting	<ul style="list-style-type: none"> • Hire one staff person to monitor and track septic systems. • Planning and Zoning will administer and track the four (4) acres of tree planting per year. • Medium 	<ul style="list-style-type: none"> • No staff hiring reported. The programmatic milestones for upgrading and tracking septic systems were not initiated due to high costs. • No update reported. <p><i>Programmatic initiatives not included in County's original milestones:</i></p> <ul style="list-style-type: none"> • Established a system to track and quantify stormwater management improvements. • The number and location (GIS layer) of nitrogen-removing septic systems installed via the BRF Grant Program is being tracked along with the nitrogen reduction efficiency of the technologies installed. • Community Planning and Building is working with the Environmental Health Department to assist them in tracking the advanced systems installed outside of the Grant Program. • The installation of stormwater management devices is being tracked by the Department of Public Works. • Medium 	<ul style="list-style-type: none"> • Medium

Calvert County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comment/Notes
New Programs	• Low	• Low	• Low
Program Enhancements	• Low	• Low	• Low
Planning/Studies	• Medium	• Medium	• Medium Planning for WWTP connections and stormwater retrofits show good progress. Pursuit of an alternate strategy to developing sub-watershed WIPs should be reflected in future milestones.
	<ul style="list-style-type: none"> • Connect the Cove Point and Dares Beach communities to WWTPs. • Calvert County is proposing to provide stormwater management for currently unmanaged impervious areas. • The Department of Public Works - Office of Engineering is focused on initiating a watershed implementation plan in selected sub-watersheds to identify pollution sources and develop a strategy to reduce pollutants. <p>• Medium</p>	<ul style="list-style-type: none"> • The County has begun Planning for the connection of the Dominion LNG Plant and the remainder of the Dares Beach Community and the Cove Point Community to WWTPs. Additional connections include, Hallowing Point Trailer Park and Summer City. • Inspected existing county SWM facilities to determine which ones can be retrofitted. The next step will be to begin the retrofits. We have determined two (2) sites where major upgrades to the drainage system will be completed in fiscal year 2014. 	• Medium

Calvert County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comment/Notes
		<ul style="list-style-type: none"> • This aspect of the project was projected to cost 1.1 billion dollars over the life of the project. Lack of funding remains an obstacle to implementation of this portion of the program. A cost/benefit analysis was conducted for the Calvert WIP and it was determined that implementation costs for this plan are too high. In conjunction with the UMEFC, a less costly plan is being pursued. <p><i>Programmatic initiatives not included in County's original milestones:</i></p> <ul style="list-style-type: none"> • Design is complete and permits are pending for the Calvert County Industrial Park Connection to Prince Frederick Waste Water Treatment Plant in Barstow. • Medium 	
Public Engagement	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • Low <p>Modest programmatic milestone was not met. A stronger commitment is needed in the future.</p>
	<ul style="list-style-type: none"> • Hire one staff person to conduct homeowner outreach/ educational assistance for septic upgrades. • Low 	<ul style="list-style-type: none"> • This programmatic milestone was not initiated due to high costs. • Low 	<ul style="list-style-type: none"> • Low

Calvert County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comment/Notes
Addresses Appropriate Sectors? (Comprehensiveness)	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • Low <p>A more robust commitment toward milestone completion should be reflected in the future for the stormwater and septic sectors. Good progress on wastewater plants through the acquisition of funds for an ENR upgrade.</p>
Stormwater	<ul style="list-style-type: none"> Moderate commitments were made to enhance legal authority, planning and tracking functions. • High 	<ul style="list-style-type: none"> Commitments were partly met. Adoption of a stormwater management impact fee was not accomplished. • Low 	<ul style="list-style-type: none"> • Low
Septic Systems	<ul style="list-style-type: none"> Commitments were made to enhance the septic systems sector through legal authority, funding, outreach, staffing and tracking. • High 	<ul style="list-style-type: none"> With the exception of funding, septic milestones in the other categories were not accomplished. • Low 	<ul style="list-style-type: none"> • Low
Wastewater Plants	<ul style="list-style-type: none"> Commitments were made to enhance funding and planning functions. • High 	<ul style="list-style-type: none"> Good progress was made on achieving the commitments. • High 	<ul style="list-style-type: none"> • High

Calvert County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comment/Notes
BMP Implementation			Final Programmatic Milestone achievements and BMP Implementation Progress for 2012-2013 are both documented in the " Draft Calvert County Watershed Implementation Plan Two-Year Milestone Report "

Caroline County 2012-2013 Milestones Evaluation

The County¹ received “High” ratings in most categories of the 2012-2013 Milestones evaluation, as summarized in the following table. Significant progress has been made in the stormwater and septic sectors through strong multi-partnership coordination, planning and grant solicitation efforts. Although no milestones were identified for the wastewater treatment plant sector, the County and several municipalities have been involved in significant septic connection projects. Going forward, the original commitments to resource and organizational enhancements that have not been completed should be reflected in future milestones.

Summary Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	• High	• High	• High There has been an overwhelming commitment to securing funding for the planning, design and construction of multiple urban stormwater and septic projects. Numerous ongoing activities should be reflected in future milestones.
Legal Authority Enhancements (e.g., new ordinances)	• None	• None	• None No commitments were made to enhance legal authorities to increase water quality restoration capacity.
Organizational Enhancements	• High	• High	• High Strong commitments were made to organizational enhancements, mainly through Internal and external coordination and new programs. Additional initiatives were completed in tracking and reporting, including land use refinements that were not part of the original commitments. Future milestones should reflect commitment to pursue program enhancements that were not met.

¹ Although we routinely make reference to “the County” as if it’s a single entity, it is often shorthand for an amalgam of the county and municipal governments as well as other partners.

Caroline County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Planning/Studies	• High	• High	<ul style="list-style-type: none"> • High <p>Numerous commitments were made to planning/ studies. The “High” rating is based on the large quantity of original milestone goals. Many of these goals were achieved.</p>
Public Engagement	• Medium	• Medium	<ul style="list-style-type: none"> • Medium <p>There has been some public engagement in the form of public outreach meetings and mailing programs.</p>
Addresses Appropriate Sectors? (Comprehensiveness)	• High	• High	<ul style="list-style-type: none"> • High <p>Significant progress has been made in the stormwater and septic sectors through retrofit designs as well as planning for a BMP testing facility. No commitments to wastewater were identified.</p>
BMP Implementation			<p>Progress updates on BMP implementation milestones were not included in the County’s “2012-2013 Milestones and Status Updates” report; however, numerous projects were referenced in descriptions of programmatic milestone progress.</p>

Detailed Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>There has been an overwhelming commitment to securing funding for the planning, design and construction of multiple urban stormwater and septic projects.</p>
Funding	<ul style="list-style-type: none"> • Identify annual funding sources to implement urban BMPs. • Examples of grant-funded projects: <ul style="list-style-type: none"> – 4 stormwater BMP projects in Greensboro & Denton. – 2 stormwater BMP retrofit projects on the County's Department of Public Works (DPW). – Review and assess all County roads for feasibility of stormwater management retrofit projects, develop priority list of projects. • Examples of grant-funding 	<ul style="list-style-type: none"> • County identified five (5) grant programs and has regularly applied since 2011. Federal 319(h) program has funded a watershed planner. • Funding secured for the following projects: <ul style="list-style-type: none"> – 3 of 4 stormwater BMP retrofit projects in Greensboro funded by FY12 319 grant. – 2 BMP retrofit projects at the County DPW facility have been funded by FY11 and FY13 319 grants. – County road feasibility study funded by FY12 319 grant, to be complete by June 30, 2014. • Funding secured or funding strategies being developed for the 	<ul style="list-style-type: none"> • High

Caroline County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>activities for projects identified via survey of publicly-property opportunities:</p> <ul style="list-style-type: none"> • Assess feasibility of initiating a bi-monthly street sweeping/ storm drain cleanout program in two or more municipalities utilizing a shared street sweeper and implemented in conjunction with storm drain cleanout and maintenance program. • Work with County economic development organizations and MD DBED on funding opportunities for demonstration projects and training workshops. • Explore potential of funding of septic inspection and pumpout program through Bay Restoration Fund (BRF). • Septic system treatment research using switchgrass (part of econ development initiative) • Provide assistance in finding technical and funding 	<p>following projects on publicly-owned property: 1) FY14 319 funding secured for porous pavement at County Dept of Emergency Services facility. 2) 2010 Trust Fund grant awarded for all 9 riparian tree planting projects. 3) Grant solicitation for streetscape & stormwater in Marydel. 4) Long-term funding strategy development for stormwater projects in Federalsburg.</p> <ul style="list-style-type: none"> • Joint Street Sweeping, Inlet Cleaning: County talked with one potential funder (USDA), however federal budget impasse suppressed available grant funds for foreseeable future. Still looking for potential funding sources. • No progress on MD DBED funding for training and demo projects. • No progress on septic inspection/pumpout program. • Secured 2013 NFWF grant for two-year switchgrass initial design testing. • Continuing to assist with funding efforts to facilitate connection of 150 failing septic systems located in 	

Caroline County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>resources for study and implementation of wastewater treatment solutions for North County towns [on septic systems] (Goldsboro, Henderson, Marydel and Templeville).</p> <ul style="list-style-type: none"> • High 	<p>around Goldsboro to new Greensboro ENR WWTP.</p> <ul style="list-style-type: none"> • High 	
Staff: New or re-assigned	<ul style="list-style-type: none"> • Identify annual funding sources to implement urban BMPs. • High 	<ul style="list-style-type: none"> • Obtained 319(h) Program funding for staff watershed planner to organize and oversee planning and implementation activities in Upper Choptank watershed. • High 	• High
Contractor Support	• None	• None	• None
Legal Authority Enhancements (e.g., new ordinances)	• None	• None	<ul style="list-style-type: none"> • None <p>No commitments were made to enhance legal authorities to increase water quality restoration capacity.</p>
Organizational Enhancements	• High	• High	<ul style="list-style-type: none"> • High <p>Strong commitments were made to organizational enhancements, mainly through Internal and external coordination and new programs. Additional</p>

Caroline County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
			initiatives were completed in tracking and reporting, including land use refinements that were not part of the original commitments. Future milestones should reflect commitment to pursue program enhancements that were not met.
Internal and External Coordination	<ul style="list-style-type: none"> • Plan and design 4 stormwater BMP retrofit projects on publically-owned, high-intensity impervious urban land in towns of Denton and Greensboro. • Identify additional publically-owned buildings and properties suitable for BMP demonstration/education project sites. • Feasibility assessment of initiating a bi-monthly street sweeping/storm drain cleanout program in two or more municipalities. • Assist municipalities, 	<ul style="list-style-type: none"> • 3 of 4 Planning, design complete. • Over 24 publically-owned sites identified. Coordination on several projects initiated: <ul style="list-style-type: none"> – 3 Greensboro and 1 Denton stormwater BMP projects. – Porous paving at County Emergency Services facility. – Marydel street-scape and stormwater project. – Large-scale project in Ridgley with State Highway Admin. – Federalsburg stormwater planning and long-term funding initiative. – Nanticoke watershed planning effort. • County discussed street sweeping concept with Preston, Greensboro, 	<ul style="list-style-type: none"> • High

Caroline County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>communities and Home Owners Associations with development of voluntary urban nutrient management plans for homeowners/businesses.</p> <ul style="list-style-type: none"> • Create inventory of potential stormwater BMP projects in County and municipalities, with priority areas/projects and preliminary design concepts. • Develop program to tie economic development/community partner opportunities for reduction projects. • Determine training needs for small businesses and local labor force in areas of environmental site design, best management practices (BMPs) for urban and agricultural lands, stormwater retrofit and non-structural stormwater management techniques, and maintenance of BMPs. • Work with County economic 	<p>Denton and Ridgely in 2012. On-going.</p> <ul style="list-style-type: none"> • No progress on urban nutrient management. • Coordinated methodology and assessment with Chesapeake Bay Program (CBP) to enable data input to CBP Chesapeake Bay Model as part of State Phase II WIP goal. • Working with agriculture extension, health department and town of Greensboro partners on joint project to construct permanent innovative septic BMP test center at new Greensboro ENR treatment plant. Draft design completed. • Using stormwater retrofit projects to train Town DPW staff in installation and maintenance of retrofit stormwater BMPs. • No progress reported. • Assisting Goldsboro and Dept of Environmental Health with coordination of application process to obtain grant funding assistance for connection costs to property owners. • No progress reported. • High 	

Caroline County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>development organizations and MD DBED on funding opportunities for demonstration projects/training workshops.</p> <ul style="list-style-type: none"> • Assist with administrative and funding efforts to facilitate septic connections located around Goldsboro to new Greensboro ENR WWTP. • Work with towns to develop resources list of contractors, potential labor pools, organizations with members willing to pitch in as volunteers, and schools willing to partner students with projects. • High 		
Tracking/Reporting	<ul style="list-style-type: none"> • Create a County-wide system for tracking installation and monitoring performance of urban BMPs. • Create inventory of potential stormwater BMP projects in County and municipalities, with priority areas/projects and preliminary design concepts. 	<ul style="list-style-type: none"> • No progress • Created, organized and uploaded ~200 zipped data and shape files to MDE ftp site for inclusion with state submittal of local data to CBP Bay Model workgroup. Will continue to develop shape files of relevant county and municipal data for inclusion in Bay model. Conducted fine-scale GIS assessment of urban 	<ul style="list-style-type: none"> • Medium

Caroline County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<ul style="list-style-type: none"> • Delineate districts to encompass all on-site septic systems in County. Critical Area to serve as District 1 (priority). • High 	<p>land use in County using County-level GIS data resources. Identified and assessed Caroline County urban land use acreage, including density of development and impervious area intensity, in rural areas and incorporated towns. GIS assessment will enable identification of priority areas for urban SWM BMP installation and retrofit projects.</p> <ul style="list-style-type: none"> • No progress. • Medium 	
New Programs	<ul style="list-style-type: none"> • Develop program to tie economic development/community partner opportunities for reduction projects. • Assess feasibility of street sweeping and inlet cleaning program among municipalities. • High 	<p>Brought County Economic Development Corporation and University of MD scientists together to discuss economic development partnership opportunities for algae-scrubber projects in County.</p> <p>County is also working with agriculture extension and health department partners to research innovative 'green' (non-electric) septic BMPs that could foster niche business opportunities.</p> <ul style="list-style-type: none"> • Feasibility assessed. On-going evaluation. • High 	<ul style="list-style-type: none"> • High
Program Enhancements	<ul style="list-style-type: none"> • Determine existing capacity of local septage inspection/ 	<ul style="list-style-type: none"> • No progress • No progress 	<ul style="list-style-type: none"> • Low

Caroline County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>hauling companies, receiving facilities, and management/oversight entities. Study feasibility of expanding local capacity (including County department) to serve program.</p> <ul style="list-style-type: none"> • Establish system for evaluating and addressing clusters of failing septic systems within districts <p>• High</p>	<ul style="list-style-type: none"> • Low 	
Planning/Studies	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Numerous commitments were made to planning/studies. The High rating is based on the large quantity of original milestone goals. Many of these goals were achieved.</p>
	<ul style="list-style-type: none"> • Plan and design 4 stormwater BMP retrofit projects on publically-owned, high-intensity impervious urban land in towns of Denton and Greensboro. • Plan and design stormwater BMP retrofit on the County's 	<ul style="list-style-type: none"> • Completed planning/preliminary design for 3 SWM retrofit projects in Greensboro. Secured funding for final design and construction of projects, to begin in 2014. • 2 retrofit projects have been planned and designed. • Inventory and study of unpaved 	<ul style="list-style-type: none"> • High

Caroline County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>Department of Public Works property on Wilmuth Street.</p> <ul style="list-style-type: none"> • Review and assess all County roads for feasibility of stormwater management retrofit projects, develop priority list of projects. • Plan and design stormwater BMPs on unpaved County roads. • Identify additional publically owned buildings and properties suitable for BMP demonstration /education project sites. • Assess feasibility of initiating a bi-monthly street sweeping/storm drain cleanout program in two or more municipalities utilizing a shared street sweeper and implemented in conjunction with storm drain cleanout and maintenance program. • Continue to identify eligible stormwater BMPS implemented in County and municipalities prior to 2010 and submit to MDE for 	<p>roads in Upper Choptank River Watershed to be complete by June 30 2014. GIS assessment will enable identification of priority areas for urban SWM BMP installation and retrofit projects.</p> <ul style="list-style-type: none"> • To be started after completion of unpaved roads study. • Identification of over 24 publically-owned sites completed for Denton and Greensboro in County 319 Upper Choptank River Watershed Plan in 2012. Planning/partnership building with the towns of Marydel and Federalsburg to identify stormwater retrofit BMP projects and priorities. • County discussed this idea with Preston, Greensboro and Ridgely in 2012, all expressed interest in shared street sweeper/vacuum program. • No progress • Continuing to develop inventory of potential urban stormwater BMP projects on public land in County and municipalities. • Completed planning and design, secured funding from NFWF to construct small-scale septic system test site, plant with switchgrass and 	

Caroline County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<ul style="list-style-type: none"> nutrient/sediment credits. • Create inventory of potential stormwater BMP projects in County and municipalities, with priority areas/projects and preliminary design concepts. • Develop methods for field testing alternative methods of reducing nitrogen load from septic systems. • Determine training needs for small businesses and local labor force in areas of environmental site design, best management practices (BMPs) for urban and agricultural lands, stormwater retrofit and non-structural stormwater management techniques, and maintenance of BMPs. • Assess feasibility of establishing septic districts to manage regular inspection and pumpout program of septic systems. Explore potential of funding through Bay Restoration Fund (BRF). 	<p>monitor nutrient uptake over two-year period. Project to begin in Spring 2014. If field testing produces successful results, project will be continued at new permanent septic BMP test site when it is completed.</p> <ul style="list-style-type: none"> • Progress made training county / municipal DPW crews via stormwater retrofit projects on County and Town public properties. No progress in private sector. • No progress • No progress • In 2012, 25 properties identified with failing or non-conforming systems and were designated a sewer service area in County Comprehensive Water and Sewerage Plan. Property owners currently working with County and Environmental Health Department to complete Bay Restoration Fund grant application process. Septics will be decommissioned and properties will be connected to new Greensboro ENR treatment plant when construction is complete, late 2015/early 2016. <p>• High</p>	

Caroline County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<ul style="list-style-type: none"> • Determine feasible rotating schedule of inspections/pump outs for districts (e.g. 2 yrs per district). • Assess density and condition of septic systems located adjacent to municipal sewer service areas for feasibility of connecting failing/non-conforming properties to municipal WWTPs. • High 		
Public Engagement	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • Medium <p>There has been some public engagement in the form of public outreach meetings and mailing programs.</p>
	<ul style="list-style-type: none"> • Identify additional publicly-owned buildings and properties suitable for BMP demonstration/education project sites. • Provide assistance in finding technical and funding resources for study and 	<ul style="list-style-type: none"> • Construction of interpretive signage to educate public on effectiveness of installed porous pavement. Construction to begin summer 2014. • Assisted with public outreach meeting and mailing program for over 100 property owners; to date 70 property owners have completed funding applications. The two-year 	<ul style="list-style-type: none"> • Medium

Caroline County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>implementation of wastewater treatment solutions for North County towns [on septic systems] (Goldsboro, Henderson, Marydel and Templeville).</p> <ul style="list-style-type: none"> • Medium 	<p>process will continue into 2015.</p> <ul style="list-style-type: none"> • Medium 	
Addresses Appropriate Sectors? (Comprehensiveness)	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Significant progress has been made in the stormwater and septic sectors through retrofit designs as well as planning for a BMP testing facility. No commitments to wastewater were identified.</p>
Stormwater	<ul style="list-style-type: none"> • Significant commitments were made to enhance funding, organizational, and planning functions. • High 	<ul style="list-style-type: none"> • Significant progress was made on achieving funding, organizational, and planning commitments. • High 	<ul style="list-style-type: none"> • High
Septic Systems	<ul style="list-style-type: none"> • Significant commitments were made to enhance funding, organizational, and planning functions. Projects include facilitating connection of 150 failing septic systems 	<ul style="list-style-type: none"> • Significant progress was made on achieving funding, organizational, and planning commitments, including completion of preliminary planning and design of a permanent septic BMP testing facility to 	<ul style="list-style-type: none"> • High <p>Septic commitments identified through Program Enhancements should be addressed in the future.</p>

Caroline County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>to new Greensboro ENR WWTP and field testing alternative methods of reducing nitrogen load from septic systems.</p> <ul style="list-style-type: none"> • High 	<p>facilitate field testing of alternative methods of reducing nitrogen load from septic systems.</p> <ul style="list-style-type: none"> • High 	
Wastewater Plants	<ul style="list-style-type: none"> • None 	<ul style="list-style-type: none"> • None 	<ul style="list-style-type: none"> • None <p>Wastewater sector will be involved in projects to connect failing septic systems to Greensboro ENR WWTP.</p>
BMP Implementation			<p>Progress updates on BMP implementation milestones were not included in the County's "2012-2013 Milestones and Status Updates report"; however, numerous projects were referenced in descriptions of programmatic milestone progress.</p>

Carroll County 2012-2013 Milestones Evaluation

The County¹ received "High" and "Medium" ratings in most categories of the 2012-2013 Milestones evaluation, as summarized in the following table. Overall, the original commitments were fairly modest. The County has demonstrated close coordination with MDE on wastewater plant upgrades and with local municipalities on a variety of subjects. Moderate commitments and progress were made in the stormwater and septic system sectors. Opportunities remain for enhanced planning and public engagement commitments in future milestones.

Summary Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	• Low	• High	<ul style="list-style-type: none"> • High <p>Although no original commitments were identified, the addition of two staff positions combined with securing grants, and the funding of stormwater represent good progress.</p>
Legal Authority Enhancements (e.g., new ordinances)	• Medium	• High	<ul style="list-style-type: none"> • High <p>Modest activities acknowledged in relation to septic system legal authorities. Formalized County/municipal relationship to implement joint MS4 permit.</p>
Organizational Enhancements	• Medium	• High	<ul style="list-style-type: none"> • High <p>High ratings for internal and external coordination & tracking/reporting are based on achieving the original commitments as well as completing additional goals not included in the County's original milestones.</p>
Planning/Studies	• High	• Medium	<ul style="list-style-type: none"> • Medium <p>Modest progress was reported on planning commitments.</p>

¹ Although we routinely make reference to "the County" as if it's a single entity, it is often shorthand for an amalgam of the county and municipal governments as well as other partners.

Carroll County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Public Engagement	• Low	• Medium	<ul style="list-style-type: none"> • Medium <p>Although no programmatic efforts were identified in the County's original milestones, public engagement is routinely offered for existing programmatic activities.</p>
Addresses Appropriate Sectors? (Comprehensiveness)	• High	• High	<ul style="list-style-type: none"> • High <p>Milestones reflect commitments that are comprehensive across the stormwater, septic and wastewater sectors. Created septic upgrade tracking system. Hired two positions to support stormwater. Closely coordinating with MDE on wastewater plant upgrades.</p>
BMP Implementation			<p>County BMP implementation is submitted separately to MDE for annual progress reporting; thus, no implementation milestones were identified in the County's 2012-2013 Programmatic Milestones Status Update report.</p>

Detailed Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Although no original commitments were identified, the addition of two staff positions combined with securing grants, and the funding of stormwater represent good progress.</p>
Funding	<ul style="list-style-type: none"> • Low 	<p><i>Programmatic efforts not included in the County's original milestones:</i></p> <ul style="list-style-type: none"> • Funds have been budgeted for impervious surface restoration, thereby complying with the NPDES MS4 permit. Funds have been budgeted to restore the remaining 4% of impervious surface treatment required until the next NPDES MS4 permit is issued, for a total of 20%, plus most of the next 10% (30% total by end of next permit term). • Grant funding was secured for several tree planting projects. • County coordinated with SHA to fund and complete mutually beneficial stormwater treatment projects. • The Board of County Commissioners 	<ul style="list-style-type: none"> • High <p>Funding of stormwater restoration for near-term and long-term goals, as well as support for municipalities, is significant. More attention to the septic systems sector should be reflected in future milestones.</p>

Carroll County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
		<p>agreed to fund 80% of the Municipalities' costs for capital projects to comply with the anticipated restoration requirement of their upcoming Phase II permits. A portion of tax revenues has been designated to funding the operating costs for the stormwater program.</p> <ul style="list-style-type: none"> • The County Commissioners approved capital projects through FY 20 projected to continue to work toward compliance with impervious area restoration in the county to reach a total of 30% impervious area treated. • High 	
Staff: New or re-assigned	<ul style="list-style-type: none"> • Low 	<p><i>Programmatic efforts not included in the County's original milestones:</i></p> <ul style="list-style-type: none"> • Approximately 22 (about 44%) employees out of 50 in the Department of Land Use, Planning & Development (LUPD) now are involved in watershed restoration initiatives. Additional employees in the Department of Public Works (DPW) are involved with maintenance. • Two additional positions were created to address watershed issues 	<ul style="list-style-type: none"> • High <p>New staff positions were added, and existing staff reassigned, even though no specific milestone goal was identified.</p>

Carroll County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
		<p>and funding.</p> <ul style="list-style-type: none"> • High 	
Contractor Support	<ul style="list-style-type: none"> • None 	<p><i>Programmatic efforts not included in the County's original milestones:</i></p> <ul style="list-style-type: none"> • Department of Land Use, Planning & Development (LUPD) is now contracting to take over mowing on stormwater facilities from DPW. • Medium 	<ul style="list-style-type: none"> • Medium
Legal Authority Enhancements (e.g., new ordinances)	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Modest activities acknowledged in relation to septic system legal authorities. Formalized County/municipal relationship to implement joint MS4 permit.</p>
	<ul style="list-style-type: none"> • Evaluate any proposed septic legislation in the 2012 Session of the General Assembly to determine if current questionable premises or trade-offs have been resolved. • Medium 	<ul style="list-style-type: none"> • Reviewed legislative requirements; revised definition of minor subdivision for purposes of septic approval; tiers (for County) to be evaluated in conjunction with next comprehensive plan update. All municipalities in Carroll County adopted growth tiers by the end of December 2012. • The Board of County Commissioners and the Mayors of all eight municipalities signed an agreement 	<ul style="list-style-type: none"> • Medium

Carroll County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
		<p>to work collaboratively toward a joint NPDES MS4 permit.</p> <ul style="list-style-type: none"> • High 	
Organizational Enhancements	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>High ratings for internal and external coordination & tracking/reporting are based on achieving the original commitments, as well as completing additional goals not included in the County's original milestones.</p>
Internal and External Coordination	<ul style="list-style-type: none"> • Continue to support the State schedule for Enhanced Nutrient Removal (ENR) upgrades and coordinate with the State on implementation. • Continue to work cooperatively as a Water Resources Coordination Council (WRCC) on program development and implementation. • High 	<ul style="list-style-type: none"> • Coordination with MDE for ENR upgrade plans is ongoing. • The WRCC continues to serve as the local WIP Team and to include discussing and addressing WIP issues as they arise. This includes funding and design/construction of joint stormwater treatment projects. <p><i>Programmatic efforts not included in the County's original milestones:</i></p> <ul style="list-style-type: none"> • County coordinated with SHA to fund and complete mutually beneficial stormwater treatment projects. • The Board of County Commissioners and the Mayors of all eight municipalities signed an agreement 	<ul style="list-style-type: none"> • High <p>The WRCC forum is an excellent model of county and municipal coordination.</p>

Carroll County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
		<p>to work collaboratively toward a joint NPDES MS4 permit.</p> <ul style="list-style-type: none"> • Worked with MDE on clean-up of historical BMP inventory, particularly stormwater BMPs. • County staff provided MDE with local GIS data for the 2017 Midpoint Assessment. County GIS staff continues to work on updates to data layers. • Projects are regularly identified, prioritized, and coordinated with relevant agencies, such as SHA, and municipalities for stormwater projects and tree planting sites. • Coordination between jurisdictions and the County regarding septic conversions to public systems. • High 	
Tracking/Reporting	<ul style="list-style-type: none"> • Continue to track septic system upgrades through the local Health Department. • Continue to track the number of septic systems that are eliminated due to conversion / connection to public sewer systems. • Medium 	<ul style="list-style-type: none"> • Septic conversions to public systems are tracked by each of the county's jurisdictions and reported to the County. • The Carroll County Health Department created a database to track septic upgrades. <p><i>Programmatic efforts not included in the County's original milestones:</i></p> <ul style="list-style-type: none"> • Worked with MDE on clean-up of 	<ul style="list-style-type: none"> • High <p>Although milestone commitments reflected status quo, the creation of a septic system upgrade database and collaboration with MDE reflect positive investments in tracking and reporting.</p>

Carroll County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
		<p>historical BMP inventory.</p> <ul style="list-style-type: none"> • County staff provided MDE with local GIS data for the 2017 Midpoint Assessment. • The Carroll County Health Dept. regularly provides data to the County regarding the tracking of septic upgrades. • High 	
New Programs	• Low	• Low	• Low
Program Enhancements	• Low	<p><i>Programmatic efforts not included in the County's original milestones:</i></p> <ul style="list-style-type: none"> • The Board of County Commissioners and the Mayors of all eight municipalities signed an agreement to work collaboratively toward a joint NPDES MS4 permit. • High 	• High
Planning/Studies	• Medium	• Medium	<p>• Medium</p> <p>Modest progress was reported on planning commitments.</p>
	<ul style="list-style-type: none"> • Further stormwater implementation contingent on completion of additional cost-benefit analyses and evaluation of possible alternatives evaluated. • Evaluate any proposed septic 	<ul style="list-style-type: none"> • No progress reported on cost-benefit analyses. • Reviewed legislative requirements; revised definition of minor subdivision for purposes of septic approval; tiers (for County) to be evaluated in conjunction with next 	• Medium

Carroll County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>legislation in the 2012 Session of the General Assembly to determine if current questionable premises or trade-offs have been resolved.</p> <ul style="list-style-type: none"> • Assess options for mitigating septic loads, and evaluate these options to determine the most cost effective program, assuming funds were available and approval by elected officials. • Medium 	<p>comprehensive plan update. All municipalities in Carroll County adopted growth tiers by the end of December 2012.</p> <ul style="list-style-type: none"> • No progress update provided on septic load mitigation options. <p><i>Programmatic efforts not included in the County's original milestones:</i></p> <ul style="list-style-type: none"> • Stream assessments completed for 6 of the 9 major watershed basins within the County. • Projects are regularly identified, prioritized and coordinated with relevant agencies for stormwater projects and tree planting sites. • Medium 	
Public Engagement	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • Medium <p>Although no programmatic efforts were identified in the County's original milestones, public engagement is routinely offered for existing programmatic activities.</p>
	<ul style="list-style-type: none"> • Low 	<p><i>Programmatic efforts not included in the County's original milestones:</i></p> <ul style="list-style-type: none"> • All WRCC meetings are open to the public. • The County has participated in and 	<ul style="list-style-type: none"> • Medium

Carroll County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
		<p>engaged the public through its regular NPDES public outreach efforts. Materials are available online.</p> <ul style="list-style-type: none"> • Stream corridor assessments and stormwater mitigation projects are routinely coordinated with impacted and neighboring property owners. • Medium 	
Addresses Appropriate Sectors? (Comprehensiveness)	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Addressed all sectors. Created septic upgrade tracking system. Hired two positions to support stormwater. Closely coordinating with MDE on wastewater plant upgrades.</p>
Stormwater	<ul style="list-style-type: none"> • Moderate commitments were made to ongoing funding, staff support, coordination and planning. • Medium 	<ul style="list-style-type: none"> • Grant funding, increased staffing and coordination exceed original commitments. • High 	<ul style="list-style-type: none"> • High
Septic Systems	<ul style="list-style-type: none"> • Moderate commitments were made to ongoing tracking. • Planning commitment made to assess options for septic load reductions. • Medium 	<ul style="list-style-type: none"> • Creation of a database for tracking septic system upgrades exceeded original commitment. Coordination with municipalities on septic connections is noteworthy. • No update provided on planning 	<ul style="list-style-type: none"> • High

Carroll County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
		<p>commitment.</p> <ul style="list-style-type: none"> • High 	
Wastewater Plants	<ul style="list-style-type: none"> • Substantive commitment was made to track and coordinate with the State on numerous ENR upgrade projects. • High 	<ul style="list-style-type: none"> • Progress is consistent with original commitment. • High 	<ul style="list-style-type: none"> • High
BMP Implementation			<p>County BMP implementation is submitted separately to MDE for annual progress reporting; thus, no implementation milestones were identified in the County's 2012-2013 Programmatic Milestones Status Update report.</p>

Cecil County 2012-2013 Milestones Evaluation

The County¹ received “High” ratings in most categories of the 2012-2013 Milestones evaluation as summarized in the following table. Various evaluations of stormwater and septic system sectors are ongoing; outcomes of these studies should be reflected in future milestones. Adoption of sewer rate increase is noteworthy in the wastewater sector.

Summary Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	• High	• High	<ul style="list-style-type: none"> • High <p>Most original commitments have been met. County Council approval of higher wastewater user rates and major facility fees to increase revenue source for minor WWTP and septic connections represents significant resource enhancement. In cases where new funding was not acquired, there was a reallocation of existing resources to complete certain projects.</p>
Legal Authority Enhancements (e.g., new ordinances)	• High	• High	<ul style="list-style-type: none"> • High <p>County Council approved higher wastewater user rates and the major facility fee to increase revenue source for minor WWTP and septic connections. Ordinance evaluation, assessment and prioritization of opportunities for minor WWTP and septic connections are ongoing.</p>
Organizational Enhancements	• High	• High	<ul style="list-style-type: none"> • High <p>There has been significant coordination within the County, between Counties (Cecil and Harford) and with the state. State law and local health department policies are consistent for new and enhanced programs.</p>

¹ Although we routinely make reference to “the County” as if it’s a single entity, it is often shorthand for an amalgam of the county and municipal governments as well as other partners.

Cecil County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Planning/Studies	• High	• High	<ul style="list-style-type: none"> • High <p>Overall the commitment has been strong in this area. Despite not securing funding for watershed assessments, the county was able to conduct two assessments for prioritizing water quality improvement projects.</p>
Public Engagement	• Low	• Medium	<ul style="list-style-type: none"> • Medium <p>Despite not being explicitly stated in the milestone goals, the County has engaged in some public outreach events.</p>
Addresses Appropriate Sectors? (Comprehensiveness)	• High	• High	<ul style="list-style-type: none"> • High <p>Milestones reflect commitments that are comprehensive across the stormwater, septic and wastewater sectors. Various evaluations of stormwater and septic system sectors are ongoing. Adoption of sewer rate increase is noteworthy in the wastewater sector.</p>
BMP Implementation			<p>Implementation milestones were identified in the Cecil County Milestones Report for the septic sector (40 BAT installations annually). This milestone goal was exceeded (103 total BAT systems installed in FY12 & FY13).</p>

Detailed Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Most original commitments have been met. County Council approval of higher wastewater user rates and major facility fees to increase revenue source for minor WWTP and septic connections represents significant resource enhancement. In cases where new funding was not acquired, there was a reallocation of existing resources to complete certain projects.</p>
Funding	<ul style="list-style-type: none"> • Refine cost estimates and associated connection fee increases, major utility fees and other revenue sources needed to capitalize projects that connect minor wastewater treatment plants and areas with failing septic systems to ENR wastewater treatment plants. • Continue to pursue additional 	<ul style="list-style-type: none"> • The Cecil County Council approved increases in wastewater user rates and the major facility fee which went into effect in July 2013 and October 2013, respectively. • The county has pursued and continues to apply for grant opportunities available to fund the design and construction of water quality improvement projects. 	<ul style="list-style-type: none"> • High

Cecil County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>revenue sources in coordination with the State. Given the anticipated high costs, we expect that a combination of Federal, State and local revenue sources will likely be needed. We will work with the State in 2012 and coming years, as needed, to refine cost estimates and identify funding options including the possible crafting of State legislation. If State and Federal funding is insufficient, we will conduct contingency planning beginning in 2013 for potential adoption of revenue sources as we deem necessary.</p> <ul style="list-style-type: none"> • Collaborate with local watershed associations to leverage existing watershed assessments in an effort to secure grant funding to hire consulting services to perform watershed assessments to identify restoration project opportunities. • If able to secure a grant in 2012, strive to hire consulting 	<p>Departments are in the process of evaluating resource and budgetary requirements for inclusion in future budget requests in order to implement stormwater retrofit projects.</p> <ul style="list-style-type: none"> • A North East River Watershed Assessment which identified and prioritized potential water quality improvement projects within the watershed was completed during the milestone period. An assessment of potential projects within the Elk River Watershed began in the 2013 milestone period and will be completed within the 2015 milestone period. • Although no grants were secured for watershed assessments, county general funds were allocated to complete the North East River Watershed Assessment and the Elk River Watershed Assessment. The county will continue to pursue grants to complete additional watershed assessments throughout the county. • Funds to study the feasibility of creating a local sewer authority 	

Cecil County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>services to perform watershed assessments to identify restoration project opportunities. We will continue to investigate grant opportunities, but also consider other arrangements including developing staff expertise and identifying potential local revenue sources, loans, etc.</p> <ul style="list-style-type: none"> • Evaluate creation of a local sewer authority, governed by a Board of Directors, in order to develop an economically self-sustaining organization to independently manage and grow sewer capacity within the County. • High 	<p>were included in the County's FY14 budget. Harford County is conducting a feasibility study regarding creation of a Water & Sewer Authority. Cecil County is collaborating with Harford to garner lessons learned to aid in evaluating this issue.</p> <ul style="list-style-type: none"> • High 	
Staff: New or re-assigned	<ul style="list-style-type: none"> • Pending results of the evaluation of the local organizational structure, we may hire, or re-structure staff to accommodate a stormwater retrofit program. • High 	<ul style="list-style-type: none"> • No additional staff has been hired and no organizational restructuring occurred during the 2013 milestone period. • Medium 	<ul style="list-style-type: none"> • Medium <p>Explicit evaluation of staffing need is a positive step.</p>
Contractor Support	<ul style="list-style-type: none"> • Collaborate with local watershed associations to leverage existing watershed 	<ul style="list-style-type: none"> • A North East River Watershed Assessment which identified and prioritized potential water quality 	<ul style="list-style-type: none"> • Medium <p>Although original plan to use contractual services</p>

Cecil County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>assessments in an effort to secure grant funding to hire consulting services to perform watershed assessments to identify restoration project opportunities.</p> <ul style="list-style-type: none"> • If able to secure a grant in 2012, strive to hire consulting services to perform watershed assessments to identify restoration project opportunities. • Medium 	<p>improvement projects within the watershed was completed during the milestone period. An assessment of potential projects within the Elk River Watershed began in the 2013 milestone period and will be completed within the 2015 milestone period.</p> <ul style="list-style-type: none"> • Although no grants were secured for watershed assessments, county general funds were allocated to complete the North East River Watershed Assessment and the Elk River Watershed Assessment. • Medium 	<p>was not executed, alternative resources were directed to the project.</p>
Legal Authority Enhancements (e.g., new ordinances)	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>County Council approved higher wastewater user rates and major facility fees to increase revenue source for minor WWTP and septic connections. Ordinance evaluation, assessment/prioritization of opportunities for minor WWTP and septic connections are ongoing.</p>
	<ul style="list-style-type: none"> • Evaluate new ordinances, rules and guidance to create a 	<ul style="list-style-type: none"> • Evaluation of new local ordinances and rules will proceed when the 	<ul style="list-style-type: none"> • High

Cecil County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>nutrient offset program for new development and redevelopment.</p> <ul style="list-style-type: none"> • Evaluate the need for existing ordinance revisions in 2012 and may adopt the necessary revisions in early 2013. • Consider local legislation to increase fees or other sources to fund projects that connect minor WWTPs and areas with septic systems to ENR WWTPs. • Work in coordination with the State to consider State legislative requirements for property owners to upgrade their onsite septic disposal systems to best available technology systems with appropriate public support and waiver provisions to account for things like age of the system and other concerns that arise. • High 	<p>state's accounting for growth policy is finalized.</p> <ul style="list-style-type: none"> • No revisions were determined to be necessary at this time. Evaluations of existing ordinances and rules will be an ongoing process. • County Council approved higher wastewater user rates and major facility fees to increase revenue source for minor WWTP and septic connections. We will continue to assess and prioritize opportunities to connect minor WWTPs and areas with septic systems as the North East Advanced WWTP is upgraded to ENR. • State law 26.04.02 requires new construction within the Chesapeake Bay watershed or for replacement systems within the Chesapeake Bay Critical Area to utilize BAT septic systems. • High 	
Organizational Enhancements	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>There has been significant coordination within the county, between counties (Cecil and Harford) and</p>

Cecil County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
			with the state. Local health department policies are consistent with State law for new and enhanced programs.
Internal and External Coordination	<ul style="list-style-type: none"> • Continue to pursue additional revenue sources in coordination with the State. Given the anticipated high costs, we expect that a combination of Federal, State and local revenue sources will likely be needed. We will work with the State in 2012 and coming years, as needed, to refine cost estimates and identify funding options including the possible crafting of State legislation • Evaluate potential changes in agreements between the county and municipal governments to facilitate a stormwater retrofit program. • Collaborate with local watershed associations to leverage existing watershed assessments in an effort to secure grant funding to hire 	<ul style="list-style-type: none"> • The county has pursued and continues to apply for grant opportunities available to fund the design and construction of water quality improvement projects. Departments are in the process of evaluating resource and budgetary requirements for inclusion in future budget requests in order to implement stormwater retrofit projects • Agreements between the county and local municipal governments will continue to be evaluated in order to provide the most cost effective stormwater retrofit projects. • North East River Watershed Assessment, identifying and prioritizing potential water quality improvement projects within the watershed, was completed during the milestone period. An assessment of potential projects 	<ul style="list-style-type: none"> • High

Cecil County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>consulting services to perform watershed assessments to identify restoration project opportunities.</p> <ul style="list-style-type: none"> • Evaluate creation of a local sewer authority, governed by a Board of Directors, in order to develop an economically self-sustaining organization to independently manage and grow sewer capacity within the County. • Evaluate potential agreements between the county and municipal governments to facilitate the connection of septic systems to advanced wastewater treatment plants. • Work in coordination with the State to consider State legislative requirements for property owners to upgrade their onsite septic disposal systems to best available technology. • High 	<p>within Elk River Watershed began in the 2013 milestone period and will be completed within the 2015 milestone period.</p> <ul style="list-style-type: none"> • County is collaborating with Harford County to garner lessons-learned from their experience to aid in evaluating creation of a water and sewer authority. • Agreements between the county and local municipal governments will continue to be evaluated in order to provide the most cost effective options to connect septic systems to advanced wastewater treatment plants. • State law 26.04.02 requires new construction within the Chesapeake Bay watershed or for replacement systems within the Chesapeake Bay Critical Area to utilize BAT septic systems. • High 	
Tracking/Reporting	<ul style="list-style-type: none"> • Consider developing a local accounting process for changes in land use and pollutant 	<ul style="list-style-type: none"> • Local land use data has been provided to the state to assist in establishing the most accurate data 	<ul style="list-style-type: none"> • Medium <p>It is unclear if a local accounting process has</p>

Cecil County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>loading. This information could be used to track conversion to and from each land use classification (agriculture, forestry and urban) and to verify and provide accurate land use data to the Chesapeake Bay Program Watershed Model.</p> <ul style="list-style-type: none"> • High 	<p>for use in the Chesapeake Bay Program Watershed Model.</p> <ul style="list-style-type: none"> • Medium 	<p>been developed for tracking changes in land use and pollutant loadings.</p>
New Programs	<ul style="list-style-type: none"> • Evaluate creation of a local sewer authority, governed by a Board of Directors, in order to develop an economically self-sustaining organization to independently manage and grow sewer capacity within the County. • Explore options for a local program that would require property owners to upgrade their onsite septic disposal system to a best available technology system. <ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • Funds to study the feasibility of creating a local sewer authority were included in the County's FY14 budget. Harford County is conducting a feasibility study regarding creation of a Water & Sewer Authority. Cecil County is collaborating with Harford to garner lessons learned to aid in evaluating this issue. • Local Health Department policies are consistent with state law requirements for BAT systems for new construction or replacement systems. <ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>It is unclear whether options for requiring property owners to upgrade septic systems were explored.</p>
Program Enhancements	<ul style="list-style-type: none"> • Consider developing a local accounting process for changes in land use and pollutant 	<ul style="list-style-type: none"> • Local land use data has been provided to the state to assist in establishing the most accurate data 	<ul style="list-style-type: none"> • Medium <p>It is unclear if a local accounting process has</p>

Cecil County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>loading. This information could be used to track conversion to and from each land use classification (agriculture, forestry and urban) and to verify and provide accurate land use data to the Chesapeake Bay Program Watershed Model.</p> <ul style="list-style-type: none"> • High 	<p>for use in the Chesapeake Bay Program Watershed Model.</p> <ul style="list-style-type: none"> • Medium 	<p>been developed for tracking changes in land use and pollutant loadings.</p>
Planning/Studies	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Overall, the commitment has been strong in this area. Despite not securing funding for watershed assessments, the county was able to conduct two assessments for prioritizing water quality improvement projects.</p>
	<ul style="list-style-type: none"> • Collaborate with local watershed associations to leverage existing watershed assessments in an effort to secure grant funding to hire consulting services to perform watershed assessments to identify restoration project 	<ul style="list-style-type: none"> • A North East River Watershed Assessment which identified and prioritized potential water quality improvement projects within the watershed was completed during the milestone period. An assessment of potential projects within the Elk River Watershed 	<ul style="list-style-type: none"> • High

Cecil County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>opportunities.</p> <ul style="list-style-type: none"> • If able to secure a grant in 2012, strive to hire consulting services to perform watershed assessments to identify restoration project opportunities. • Assess opportunities for projects that connect minor wastewater treatment plants and areas with septic systems to ENR wastewater treatment plants. • Continue to evaluate urban pollutant load reduction strategies including urban nutrient management, community reforestation, stream restoration, and stormwater retrofit strategies. Evaluate the local organizational structure to identify, and/or create, a division to manage a stormwater retrofit program. • Evaluate creation of a local sewer authority, governed by a Board of Directors, in order to develop an economically self- 	<p>began in the 2013 milestone period and will be completed within the 2015 milestone period.</p> <ul style="list-style-type: none"> • Completed the North East River Watershed Assessment and the Elk River Watershed Assessment. The assessments identify and prioritize potential water quality improvement projects within each watershed. • Continue to assess and prioritize opportunities to connect minor wastewater treatment plants and areas with septic systems as the North East Advanced Wastewater Treatment Plant is upgraded to ENR. Various types of stormwater management best management practices were identified and recommended in the watershed assessments. The priorities identified in the watershed assessments will be used to evaluate the strategy to accomplish pollutant load reductions. A subcommittee of the Cecil County WIP Advisory Committee determined that no change to the organizational structure was required during the 	

Cecil County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>sustaining organization to independently manage and grow sewer capacity within County.</p> <ul style="list-style-type: none"> • Evaluate alternative solutions that will enable us to secure equivalent reductions of the septic load at a lower cost as compared to the cost to upgrade onsite septic disposal systems to a BAT system. • High 	<p>2013 milestone development period. Divisions within the Department of Public Works will manage any stormwater retrofit projects.</p> <ul style="list-style-type: none"> • Collaborate with and learn from Harford County regarding potential development of a local Water & Sewer Authority. • Evaluations of alternative solutions are continuing and ongoing. • High 	
Public Engagement	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • Medium <p>Despite not being explicitly stated in the milestone goals, the county Health Department conducted outreach to promote septic system upgrades.</p>
	<ul style="list-style-type: none"> • None identified. • Low 	<ul style="list-style-type: none"> • The County Health Department has conducted public outreach events to promote the use of available Bay Restoration Funding to complete the BAT upgrades. • Medium 	<ul style="list-style-type: none"> • Medium
Addresses Appropriate Sectors? (Comprehensiveness)	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>All sectors were addressed. Various evaluations of stormwater</p>

Cecil County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
			and septic system sectors are ongoing. Adoption of sewer rate increase is noteworthy in the wastewater sector.
Stormwater	<ul style="list-style-type: none"> • Evaluate the local organizational structure to identify, and/or create, a division to manage a stormwater retrofit program. • Evaluate potential changes in agreements between the county and municipal governments to facilitate a stormwater retrofit program. • Continue to evaluate urban pollutant load reduction strategies including urban nutrient management, community reforestation, stream restoration, and stormwater retrofit strategies. • High 	<ul style="list-style-type: none"> • A subcommittee of the Cecil County WIP Advisory Committee determined that no change to the organizational structure was required during the 2013 milestone development period. Divisions within the Department of Public Works will manage any stormwater retrofit projects; the need for reorganization will continue to be evaluated as stormwater retrofit projects are identified and pursued. • Agreements between the county and local municipal governments will continue to be evaluated in order to provide the most cost effective stormwater retrofit projects. • Various types of stormwater management best management practices were identified and recommended in the watershed assessments. The priorities identified in the assessments will be 	<p>• High Although evaluations did not result in major changes, the set of evaluations demonstrates thoughtful consideration of important issues.</p>

Cecil County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
		<p>used to evaluate the strategy to accomplish pollutant load reductions.</p> <ul style="list-style-type: none"> • High 	
Septic Systems	<ul style="list-style-type: none"> • Continue to evaluate options to connect communities with septic systems to advanced wastewater treatment plants. • Evaluate potential agreements between the county and municipal governments to facilitate the connection of septic systems to advanced wastewater treatment plants. • Explore options for a local program that would require property owners to upgrade their onsite septic disposal system to a BAT system. • Evaluate alternative solutions that will enable us to secure equivalent reductions of the septic load at a lower cost as compared to the cost to upgrade onsite septic disposal systems to a BAT system. • If the State is not in the process of adopting a similar [septic load reduction] program, assess 	<ul style="list-style-type: none"> • The evaluation of connecting communities with septic systems to wastewater treatment plants is a continuous and ongoing process. • Agreements between the county and local municipal governments will continue to be evaluated in order to provide the most cost effective options to connect septic systems to advanced wastewater treatment plants. • Local Health Department policies are consistent with state law requirements for BAT systems for new construction or replacement systems. • Evaluations of alternative solutions are continuing & ongoing. • State law 26.04.02 addressed the BAT upgrade requirements. The Cecil County Health Department has conducted public outreach events to promote the use of available Bay Restoration Funding to complete the BAT upgrades. 	<ul style="list-style-type: none"> • Medium <p>Although the set of commitments is broad, incremental progress is not evident from the reporting.</p>

Cecil County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>the options for upgrade requirements and funding mechanisms developed in 2012.</p> <ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • Medium 	
Wastewater Plants	<ul style="list-style-type: none"> • Continue to pursue the ENR upgrade at Northeast River Advanced WWTP. • Refine cost estimates and associated connection fee increases, major utility fees and other revenue sources needed to capitalize projects that connect minor WWTPs and areas with failing septic systems to ENR WWTPs. • High 	<ul style="list-style-type: none"> • The construction contract for the upgrade of the Northeast River Advanced WWTP was awarded in October 2013 with completion projected for 2016. • The Cecil County Council approved increases in wastewater user rates and the major facility fee which went into effect in July 2013 and October 2013, respectively. • High 	<ul style="list-style-type: none"> • High <p>The county has demonstrated appropriate attention to management of wastewater plants.</p>
BMP Implementation			<p>Implementation milestones were identified in the Cecil County Milestones Report for the septic sector (40 BAT installations annually). This milestone goal was exceeded (103 total BAT systems installed in FY12 & FY13).</p>

Charles County 2012-2013 Milestones Evaluation

The County¹ received “High” ratings in most categories of the 2012-2013 Milestones evaluation, as summarized in the following table. Progress was made in all three major sectors (stormwater, septic and wastewater) through WWTP upgrade approval, plans for increased septic connections to WWTPs and planning for additional stormwater retrofit projects. Follow-through on the original commitments that have not been completed, particularly in the area of public engagement, should be reflected in future milestones.

Summary Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	• High	• High	<ul style="list-style-type: none"> • High <p>The County succeeded in securing multiple sources of funding for various projects and adopted a stormwater fee system that was not originally identified as a Milestone commitment. A preferred BMP list was created through contractual services.</p>
Legal Authority Enhancements (e.g., new ordinances)	• Low	• Medium	<ul style="list-style-type: none"> • Medium <p>In FY13, the County adopted the Watershed Restoration and Protection Fund to implement stormwater and wetland restoration and protection projects.</p>
Organizational Enhancements	• High	• High	<ul style="list-style-type: none"> • High <p>Most original milestones have been completed with significant progress on tracking/reporting and program enhancements.</p>
Planning/Studies	• High	• High	<ul style="list-style-type: none"> • High <p>Charles County has completed its Phase II WIP Strategy and other plans, which are well integrated in support of WIP implementation.</p>

¹ Although we routinely make reference to “the County” as if it’s a single entity, it is often shorthand for an amalgam of the county and municipal governments as well as other partners

Charles County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Public Engagement	• Medium	• Low	<ul style="list-style-type: none"> • Low <p>Although modest commitments were made for a public outreach plan, no update has been provided on its status.</p>
Addresses Appropriate Sectors? (Comprehensiveness)	• High	• High	<ul style="list-style-type: none"> • High <p>Upgrades to Municipal Wastewater Treatment Plants and numerous stormwater retrofit projects display significant progress. Most of the original commitments have been met.</p>
BMP Implementation			<p>Stormwater and wastewater BMP implementation milestones identified in the County's 2012-2013 Programmatic Milestone Final Report were accomplished.</p>

Detailed Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>The county succeeded in securing multiple sources of funding for various projects and adopted a stormwater fee system that was not originally identified as a Milestone commitment. A preferred BMP list was created through contractual services.</p>
Funding	<ul style="list-style-type: none"> • Establish final cost estimates and funding sources. • Develop a commitment to advance and secure funding to meet the goals. • Coordination with the Charles County Health Department to help cover the 25% cost share borne by homeowners for septic replacements or new septic systems within the Chesapeake Bay Critical Area or otherwise near streams. • High 	<ul style="list-style-type: none"> • Final cost estimates and potential funding sources were completed by March 30, 2013. • Complete. The Charles County Fiscal Year 2014 budget was awarded with stormwater retrofit funding and sewer connection study funding to meet the initial goals. • In FY13 & FY14 \$100,000 was allocated from the Environmental Service Fund to supplement the Bay Restoration Fund grants to homeowners. However in FY14 the State grant requirements were 	<ul style="list-style-type: none"> • High

Charles County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
		<p>revised to allow 100% grant funding for the majority of all grant applicants in Charles County.</p> <p><i>Programmatic efforts not included in the County's original milestones:</i></p> <ul style="list-style-type: none"> • In FY13, the County adopted the Watershed Restoration and Protection Fund to implement stormwater and wetland restoration and protection projects, replacing the use of the Environmental Service Fund. • High 	
Staff: New or re-assigned	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • Low
Contractor Support	<ul style="list-style-type: none"> • Utilize technical experts to assist the County in development of preferred BMP lists. • High 	<ul style="list-style-type: none"> • Technical experts were contracted in May 2012 through March 2013 to assist in development of preferred BMP lists. Completed. • High 	<ul style="list-style-type: none"> • High
Legal Authority Enhancements (e.g., new ordinances)	<ul style="list-style-type: none"> • None 	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • Medium • In FY13, the County adopted the Watershed Restoration and Protection Fund to implement stormwater and wetland restoration and protection projects.

Charles County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<ul style="list-style-type: none"> • None 	<ul style="list-style-type: none"> • Although no milestones were identified to secure new legal authorities, in FY13 the County adopted the Watershed Restoration and Protection Fund to implement stormwater and wetland restoration and protection projects, replacing the use of the Environmental Service Fund. • Medium 	<ul style="list-style-type: none"> • Medium
Organizational Enhancements	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Most original milestones have been completed with significant progress on tracking/reporting and program enhancements.</p>
Internal and External Coordination	<ul style="list-style-type: none"> • Coordination with the Charles County Health Department to help cost share the 25% homeowner share of septic replacements or new septic systems. • The County has more accurate baseline information, which will be shared with the State and EPA to improve the accuracy of the Bay Model. <ul style="list-style-type: none"> – BMPs in La Plata, Indian 	<ul style="list-style-type: none"> • In FY13 & F14 \$100,000 was allocated from the Environmental Service Fund to supplement the Bay Restoration Fund grants to homeowners. • Progress entailing coordination has occurred as follows: <ul style="list-style-type: none"> – GIS mapping project is occurring and results are being reported to MDE. – Refined septic system inventory in the County Phase II WIP have 	<ul style="list-style-type: none"> • Medium <p>Rating reflects the level of coordination efforts.</p>

Charles County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>Head and the Indian Head Naval Surface Warfare Center.</p> <ul style="list-style-type: none"> - More accurate septic system numbers will be shared with the State. • Sewer planning (coordination with Port Tobacco). • Medium 	<p>been shared with MDE.</p> <ul style="list-style-type: none"> • Port Tobacco Sewer Study funding secured. • Medium 	
Tracking/Reporting	<ul style="list-style-type: none"> • Continue mapping work related to impervious surface areas and existing BMPs • Develop tracking, verification and reporting protocols • Continued mapping of BMPs is needed to evaluate proposed and preferred projects. A Request for Proposals (RFP) is currently under development to begin this work in early 2012. In addition, a complete list of projects that have been completed which were not included in the most recent Bay Model of BMPs will be provided by the County to MDE, DNR and EPA for future Bay Model runs. These lists will include County BMPs as well as those from the 	<ul style="list-style-type: none"> • Mapping work related to impervious surface areas is complete. Mapping of existing BMPs began July 2012 and is ongoing. • Tracking, verification and reporting protocols have been provided by MDE at the Southern MD WIP Workshop on May 7, 2013. • Updated mapping of BMPs started in July 2012 and continues. New BMPs are added as this work progresses, and will be added to the County's Urban BMP database. Updates of this database are reported to MDE annually. Additional information will also be provided regarding non-structural stormwater BMPs, and retrofit 	<ul style="list-style-type: none"> • High

Charles County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>towns of La Plata, Indian Head and the Naval Surface Warfare Center.</p> <ul style="list-style-type: none"> • Tracking, verification and reporting progress will be included as a part of the planning phase development. Tracking of CIP retrofit projects is currently ongoing and will continue into the future as we verify and close out projects and develop new ones. • A reporting system will be developed as part of the planning phase and broken into the following sectors: urban-stormwater: regulated and non-regulated activities, septic and wastewater treatment plants. In addition, previous BMP projects and management activities will be documented and verified as a part of this plan development process. • High 	<p>stormwater BMPs.</p> <ul style="list-style-type: none"> • Tracking, verification and reporting for regulated stormwater BMPs, septic and wastewater BMP projects continues to be improved. The stormwater BMP reporting is being updated to follow MDE's proposed MS4 reporting protocol, <i>draft MDE Geodatabase Design and Guide (April 2013)</i>. • The County proposes to use the internet based system being developed by the University of Maryland Sea Grant Extension Program for citizen reporting of non-regulated stormwater activities, referred to as the SMART tool. Upgrades to BAT for on-site septic systems are being tracked by the Charles County Department of Health. Those done pre-BRF grant are not tracked. • High 	
New Programs	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • Low
Program Enhancements	<ul style="list-style-type: none"> • Work on stormwater management will continue by developing a specific program 	<ul style="list-style-type: none"> • In FY13, the County adopted the Watershed Restoration and Protection Fund to implement 	<ul style="list-style-type: none"> • Medium

Charles County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>related to stormwater retrofits and other projects and programs.</p> <ul style="list-style-type: none"> • Develop a preferred stormwater BMP list. • Medium 	<p>stormwater and wetland restoration and protection projects, replacing the use of the Environmental Service Fund.</p> <ul style="list-style-type: none"> • Preferred BMP list completed. • Medium 	
Planning/Studies	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Charles County has completed its Phase II WIP Strategy and other plans, which are well integrated in support of WIP implementation.</p>
	<ul style="list-style-type: none"> • Develop a work plan to achieve the [Phase II WIP] strategy by June 30, 2013 • Include and evaluate MS4 NPDES permit requirements and costs. • Continue modifying and evaluating alternative scenarios and associated efficiency ratings and costs. • Final Draft 2017 and 2025 local WIP II County plan with projects, timing, costs and funding sources. • Remove nitrogen and phosphorus from existing septic 	<ul style="list-style-type: none"> • A work plan to achieve the strategy by June 30, 2013 was developed in December 2011. • MS4 NPDES permit requirements and costs were evaluated as part of the County's Phase II WIP. This is complete. • Modification and evaluation of three alternate scenarios and associated efficiency ratings and costs continued through March 30, 2013. The initial evaluation is complete. • The Charles County Phase II WIP Strategy was completed by June 30, 2013. 	<ul style="list-style-type: none"> • High

Charles County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>systems by utilizing unified sewage treatment and farmland spray treatment.</p> <ul style="list-style-type: none"> • Reservation of additional future capacity at the Mattawoman Treatment Plant will be analyzed in conjunction with other potential project planning alternatives for future potential load reduction strategies. • Stormwater retrofit projects will be included in yearly Capital Improvement Programs (CIPs) and non-regulatory programs will continue to be developed to improve stormwater runoff and water quality. • As part of the future planning efforts, the County will examine large scale projects as well as small scale projects such as bioretention, buffer tree plantings, outfall repairs, infiltration improvement, street sweeping and other projects. • The Charles County National Pollution Discharge Elimination System (NPDES) permit, also known as Municipal Separate 	<ul style="list-style-type: none"> • Several projects were approved in the FY14 Capital Improvement Program budget related to connecting existing failing septic systems to WWTPs. • No report on the Mattawoman Treatment Plant analysis was provided. • Stormwater retrofit projects continue to be included in the yearly Capital Improvement Program. Multiple projects were completed during the 2012-2013 period. Other stormwater retrofit projects are in the permitting and construction phases. Additional stormwater improvement projects have been funded by the Capital Improvement Program. • In FY13, the County adopted the Watershed Restoration and Protection Fund to implement stormwater and wetland restoration and protection projects, replacing the use of the Environmental Service Fund. • The new MS4 5-year permit has not yet been issued, however the County has started evaluating the 	

Charles County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>Stormwater Sewer Systems Permit (MS4) 5 year permit is under review at this time. An analysis of the requirements of the MS4 permit will be performed and evaluated and cost impacts analyzed over time.</p> <ul style="list-style-type: none"> • The County Comprehensive Plan is currently undergoing review and a complete update. This new plan will include a revised Water Resource Element and new Goals, Objectives and Policies related to water quality, water resource protection and stormwater projects and programs. The plan will recognize the Watershed Implementation Plans, and provide the policy framework for implementation of this work. Land use scenarios are being evaluated with regards to impact on nutrient loading into waterways. • The planning phase will enable Charles County to determine the most efficient BMPs based 	<p>level of stormwater management provided for impervious surfaces.</p> <ul style="list-style-type: none"> • The final draft Water Resources Element, which is Chapter 4 of the proposed County Comprehensive Plan, was completed in FY13. • The draft Charles County Phase II WIP Strategy was presented to the WIP II Local Team on February 28, 2013, and the elected officials on April 30, 2013. This Strategy evaluated 3 scenarios for the stormwater and septic sectors and recommended the most cost effective scenario. The Charles County Phase II WIP Strategy was completed by June 30, 2013. • High 	

Charles County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>on project scale, applicability and costs. Once this work is completed, alternative funding strategies will be examined and proposed for policy consideration and implementation by the County Commissioners. This will be presented to the County Commissioners within the planning time frame before June, 2013.</p> <ul style="list-style-type: none"> • High 		
Public Engagement	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • Low <p>Although modest commitments were made for a public outreach plan, no update has been provided on its status.</p>
	<ul style="list-style-type: none"> • Present draft 2017 and 2025 local WIP II County findings to the public and elected officials. • A public outreach program for available funding for retrofit and new system improvements will be developed. <ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • The draft Charles County Phase II WIP Strategy was presented to the WIP II Local Team on February 28, 2013, and the elected officials on April 30, 2013. No update on presenting the draft to the public. • No update has been provided on the proposed development of an outreach program. <ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • Low

Charles County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Addresses Appropriate Sectors? (Comprehensiveness)	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Upgrades to Municipal Wastewater Treatment Plants and numerous stormwater retrofit projects demonstrate significant progress. Most of the original commitments have been met.</p>
Stormwater	<ul style="list-style-type: none"> • Significant commitments were made to enhance current programs as well as tracking and planning functions. • High 	<ul style="list-style-type: none"> • Significant progress was made on achieving the commitments. • High 	<ul style="list-style-type: none"> • High
Septic Systems	<ul style="list-style-type: none"> • Significant commitments were made to enhance planning functions. Additional commitments addressed coordination and public engagement. • High 	<ul style="list-style-type: none"> • Significant progress was made on achieving the planning commitments. Modest progress has been made toward the coordination and public engagement commitments. • High 	<ul style="list-style-type: none"> • High <p>Based mainly on the connection of failing septic systems to WWTPs</p>
Wastewater Plants	<ul style="list-style-type: none"> • Significant commitments were made to enhance planning functions through upgrades/improvements to the Hughesville treatment plant and the Clifton WWTP, as well as an analysis of the future capacity 	<ul style="list-style-type: none"> • Significant progress was made on achieving the improvement commitments. No report on the Mattawoman Treatment Plant analysis was provided. • High 	<ul style="list-style-type: none"> • High

Charles County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	of the Mattawoman Treatment Plant. <ul style="list-style-type: none"> • High 		
BMP Implementation			Stormwater and wastewater BMP implementation milestones identified in the County's <u>2012-2013 Programmatic Milestone Final Report</u> were accomplished.

Summary of Garrett County's "Status Report of 2013 Milestone"

As stated in the [Garrett County Milestone Status Report](#), the delivery factor for Garrett County is very small; that is, less than 10% of the nitrogen entering surface water in Garrett County reaches the main stem of the Bay. The reductions that might be achieved by septic connections, septic denitrification and septic pumping were judged not to be economically feasible because the cost of these BMPs is very high compared to the realized reductions. However, to date, ten systems utilizing Best Available Technology for nitrogen reduction have been upgraded or replaced in the Garrett County portion of the Bay Watershed (nine with grant money and one without). The County's selected WIP Strategy is to rely on erosion and sediment control on extractive land to achieve the desired nutrient and sediment reductions. By implementing this strategy, and with reductions achieved by Agriculture, the County expects to achieve its 2017 and 2025 targets without reductions from other sectors.

Consequently, Garrett County has not developed any 2012 – 2013 milestones and cannot generate a report on the progress of these milestones. The County is relying on implementing Erosion and Sediment Control plans as described in existing Maryland regulations in COMAR 26.21.01.10, to achieve the desired reductions. Additionally, milestones for Abandoned Mine Reclamation have not been created. Existing Maryland regulations at COMAR 26.21.01.16 require that, unless the permittee provided a detailed explanation why site-specific factors prevent it, the permittee must begin reclamation activities as soon as practicable after mining starts, continuing concurrently with mineral extraction and, upon termination of mining, until the entire permit area is reclaimed. Garrett County believes that State enforcement of this regulation is sufficient to ensure that reclamation occurs and permitting requirements are met.

Harford County 2012-2013 Milestones Evaluation

The County¹ received “High” ratings in most categories of the 2012-2013 Milestones evaluation, as summarized in the following table. The stormwater sector has met some of its numerous original goals. A higher completion rate should be pursued and reflected in future milestones. The septic and wastewater sectors have made significant progress through the enhancement of tracking and planning functions.

Summary Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	• High	• High	<ul style="list-style-type: none"> • High <p>Many of the original commitments to resource enhancements have been initiated and are ongoing. The County was awarded an additional grant not mentioned in the original milestones.</p>
Legal Authority Enhancements (e.g., new ordinances)	• High	• Medium	<ul style="list-style-type: none"> • Medium <p>Although the milestone has not been completed, some progress has been made with respect to developing a stormwater fee structure.</p>
Organizational Enhancements	• High	• High	<ul style="list-style-type: none"> • High <p>Multiple coordination efforts to advance projects have been initiated by the County and municipalities of Bel Air and Havre de Grace, among one another and with SHA, MDE and the Center for Watershed Protection (Havre de Grace). Good progress on tracking/reporting and development of a tree planting program that was not part of original goals.</p>
Planning/Studies	• High	• High	<ul style="list-style-type: none"> • High <p>Most of the original milestones have been achieved. In some cases, milestones have been surpassed. The “High” rating in this category is also indicative of the quantity of strong original commitments.</p>

¹ Although we routinely make reference to “the County” as if it’s a single entity, it is often shorthand for an amalgam of the county and municipal governments as well as other partners.

Harford County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Public Engagement	• Low	• High	<ul style="list-style-type: none"> • High <p>Although no milestones were identified, multiple public outreach efforts have been successfully undertaken.</p>
Addresses Appropriate Sectors? (Comprehensiveness)	• High	• High	<ul style="list-style-type: none"> • High <p>The rating reflects the good quality and quantity of the initial goals. The stormwater, septic and wastewater sectors are making progress.</p>
BMP Implementation			<p>In its Phase II WIP, the County set 2-year reduction targets for urban stormwater and septic systems. Harford County has made a strong commitment to implementing BMPs, particularly in the areas of restoration, wastewater treatment plant upgrades and septic systems. The City of Aberdeen continues to implement BMP activities. Final Programmatic Milestone achievements and BMP Implementation Progress for 2012-2013 are both presented in more detail in the <u>“Harford County Phase II Watershed Implementation Plan 2012-2013 Two-Year Milestones”</u> document.</p>

Detailed Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Many of the original commitments to resource enhancements have been initiated and are ongoing.</p>
Funding	<ul style="list-style-type: none"> • Per the requirements of HB 987-Stormwater Management-Watershed Protection and Restoration (2012), develop a stormwater fee by June 30, 2013 to assist the County in meeting the requirements of the Phase I NPDES permit. Town of Bel Air: • Investigate budget needs to meet the requirements and develop strategies for funding gaps. City of Havre de Grace: • Search for grants to complete retrofits and implement BMPs identified. • Continued work for Lilly Run project, to include application for grant through Chesapeake Bay Trust for \$35,000 (Watershed Assistance Grant) 	<ul style="list-style-type: none"> • County Council approved 10% of the requested \$10.5 million and established a task force to review and recommend a fee structure. The Task Force continues to investigate recommendations and anticipates completing their work by Feb. 2014. Town of Bel Air: • Awaiting legislative clarification and details on MS4 Phase II permit requirements for SWM fees. City of Havre de Grace: • Continuous. • Initial engineering designs received. City of Aberdeen: • Ongoing. • High 	<ul style="list-style-type: none"> • High <p><u>Note:</u> Although not cited as a funding initiative in their original milestones, the County was awarded a Stream Challenge grant from MD DNR for planting riparian buffers during 2013 and 2014.</p>

Harford County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>to continue engineering for Joint Permit through MDE/Army Corps of Engineers.</p> <p><i>City of Aberdeen:</i></p> <ul style="list-style-type: none"> • Search for grants to complete retrofits and implement BMPs that will reduce nitrogen, phosphorus & sediment loads. • High 		
Staff: New or re-assigned	<ul style="list-style-type: none"> • A City Grants Coordinator will be dedicated to researching grants for retrofits and BMP implementation. • Low 	<ul style="list-style-type: none"> • Ongoing • Low 	<ul style="list-style-type: none"> • Low
Contractor Support	<ul style="list-style-type: none"> • Town of Bel Air: Forest Conservation/Tree City USA to continue street tree plantings with no net loss policy. • Low 	<ul style="list-style-type: none"> • Street Tree initiative will be addressed through Tree City USA – Urban Tree Canopy initiative. The Town's Tree Committee will review canopy coverage and establishment of a coverage minimum for future tree stand development. • Low 	<ul style="list-style-type: none"> • Low
Legal Authority Enhancements (e.g., new ordinances)	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • Medium <p>Although the milestone has not been completed, some progress has been made with respect to developing a stormwater fee structure.</p>

Harford County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<ul style="list-style-type: none"> Per the requirements of HB 987-Stormwater Management-Watershed Protection and Restoration (2012), develop a stormwater fee by June 30, 2013 to assist the County in meeting the requirements of the Phase I NPDES permit. High 	<ul style="list-style-type: none"> County Council approved 10% of the requested \$10.5 million and established a task force to review and recommend a fee structure. The Task Force continues to investigate recommendations and anticipates completing their work by Feb. 2014. Medium 	<ul style="list-style-type: none"> Medium <p>Establishment of a fee to fund stormwater remediation projects is a statutory requirement.</p>
Organizational Enhancements	<ul style="list-style-type: none"> High 	<ul style="list-style-type: none"> High 	<ul style="list-style-type: none"> High <p>Multiple coordination efforts to advance projects have been initiated by the County and municipalities of Bel Air and Havre de Grace, among one another and with SHA, MDE and the Center for Watershed Protection (Havre de Grace). Good progress on tracking/reporting and development of a tree planting program that was not part of original goals.</p>
Internal and External Coordination	<p><i>County:</i></p> <ul style="list-style-type: none"> Continue to negotiate the conditions of the MS4 permit 	<p><i>County:</i></p> <ul style="list-style-type: none"> Ongoing. MS4 permits for Baltimore City, and Prince Georges, Baltimore 	<ul style="list-style-type: none"> High

Harford County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>with MDE.</p> <ul style="list-style-type: none"> • Coordinate with MDE for the development of trading guidelines between other urban sectors within the County (non-regulated, municipalities, schools, SHA). • Continue to coordinate with City of Havre de Grace on the Lilly Run project. • Continue to coordinate with Town of Bel Air for restoration projects in Plumtree Run. • Continue to coordinate with SHA for a stream restoration in Plumtree Run. <p><i>City of Havre de Grace:</i></p> <ul style="list-style-type: none"> • Rectify with MDE inaccurate MAST data on the City's acreage and stormwater management facilities. • Working through the Center for Watershed Protection to include the Lilly Run project in a piece through the Local Government Advisory Council to increase water quality benefits for proposed flood relief improvements for the Lilly 	<p>and Anne Arundel Counties have been finalized. Harford County has provided written comments on 3 of the 4 permits. Comments were developed through a partnership with Frederick and Charles Counties. Harford County anticipates that MDE will issue tentative determination for the remaining 4 counties over the next few months.</p> <ul style="list-style-type: none"> • No progress on development of trading guidelines with MDE. • Ongoing. Harford County and City of Havre de Grace developing MOU for joint project to complete the design for a stream restoration that will be partially funded by Harford County. • No progress on Plumtree projects; coordination with MDE on credits / trading with Town of Bel Air needs to be resolved. • Construction initiated summer 2013 on stream restoration project w/SHA. <p><i>City of Havre de Grace:</i></p> <ul style="list-style-type: none"> • In progress as City database and GIS mapping efforts continue to achieve accurate data to compare with MDE's. • Initial engineering designs received. 	

Harford County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>Run stream system. This is a large multifaceted project which will require a substantial amount of time to design, fund, and complete.</p> <ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	
Tracking/Reporting	<p>County:</p> <ul style="list-style-type: none"> • Create a detailed database (through GIS parcel-specific query) on number and location of septic systems in Harford County. Database will be used to report on actual nitrogen loads from septic systems in the County and to establish high priority areas to pursue BAT units. • Establish a tracking system that records new BAT units inside the Critical Area (CA), outside CA not within 1,000 ft of a perennial stream, and outside CA within 1,000 ft of a stream. The system will help assure a more accurate accounting of nitrogen loads and load reductions from septic systems. <p>City of Havre de Grace:</p> <ul style="list-style-type: none"> • Develop a complete database 	<p>County:</p> <ul style="list-style-type: none"> • A layer was created in GIS that separates properties serviced by septic systems in the Critical Area, 1000 ft within a tributary, and 1000 ft outside of a tributary. • A database has been created and is in operation. The database lists all septic systems with BAT and their location based on attenuation rate. <p>City of Havre de Grace:</p> <ul style="list-style-type: none"> • 40% complete. Remaining 60% in progress. Expect completion in 2014-2015 milestones. • GIS needs assessment complete. Awaiting final report. Will be integrated into City's new administration wide software program. • In progress as City database and GIS mapping efforts continue to achieve accurate data to compare with MDE's. <ul style="list-style-type: none"> • High 	

Harford County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	of BMPs within the City. <ul style="list-style-type: none"> • Begin the budget process to convert the database to a GIS. • Rectify with MDE inaccurate MAST data on City's acreage and stormwater management facilities. • High 	<ul style="list-style-type: none"> • High 	
New Programs	<ul style="list-style-type: none"> • Low 	<p><i>Programmatic initiative not included in County's original milestones:</i></p> <ul style="list-style-type: none"> • The County was awarded a Stream Challenge grant from the MD DNR to plant riparian buffers during 2013 and 2014 in the Bynum Run watershed. Additional plantings are scheduled for fall 2013 and in 2014. • Medium 	<ul style="list-style-type: none"> • Medium
Program Enhancements	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • Low
Planning/Studies	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Most of the original milestones have been achieved. In some cases, milestones have been surpassed. The "High" rating in this category is also indicative of the quantity of strong original commitments.</p>

Harford County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>County:</p> <ul style="list-style-type: none"> • Wright's Mobile Home Park to connect to public sewer. • Freys Road Public Sewer Extension Sewer petition project that will extend public sewer to some existing residential properties in CA. • Upon approval of the MS4 permit, develop watershed assessment planning and restoration as required. • Investigate implementation of Urban Nutrient Management Plans on County-owned and School-owned property. • Conduct Urban Tree Canopy Assessment between April 2012 and August 2013 to determine County's current level of tree canopy coverage and to set goals for increasing the amount of coverage in the years to come. • Complete 2 watershed restoration plans. • Initiate 4 watershed restoration plans. • Complete 4 restoration designs. 	<p>County:</p> <ul style="list-style-type: none"> • The connection to public sewer is not complete. Plans have been drawn and are under review. • Freys Road Sewer extension is currently under construction, but is not complete. • Watershed assessment planning and restoration pending MS4 permit tentative determination. • Investigation of Implementing UNM on county-, school-owned land complete • Urban Tree Canopy Assessment has been completed; goal setting and implementation strategies have been developed. • Completed 3 watershed restoration plans. • Initiated 3 watershed restoration plans. • Completed 4 restoration designs. • Initiated 7 restoration designs. • Investigating GIS assistance from other jurisdictions. Walkway project for Thomas St. scheduled for 2014. 	<ul style="list-style-type: none"> • High

Harford County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<ul style="list-style-type: none"> • Initiate 3 restoration designs. • Initiate in-street stormwater bio-retention projects as part of pedestrian walkway improvement projects. <p><i>Town of Bel Air:</i></p> <ul style="list-style-type: none"> • Complete FEMA approved flood mitigation plan. • Partner with Harford County to plan and construct several watershed restoration projects on Plumtree Run. • Complete a comprehensive Stormwater Management Plan for the Town. <p><i>City of Havre de Grace:</i></p> <ul style="list-style-type: none"> • Develop a complete database of BMPs within the City. • Begin the budget process to convert the database to a GIS. • Search for grants to complete retrofits and implement BMPs identified. • Rectify with MDE inaccurate MAST data on the City's acreage and stormwater management facilities. <p><i>City of Aberdeen:</i></p> <ul style="list-style-type: none"> • Review current Road Code for 	<p><i>Town of Bel Air:</i></p> <ul style="list-style-type: none"> • Bel Air Flood Mitigation Plan completed and approved by FEMA, adopted by Town Commissioners. • Plumtree Run projects are deferred to 2015 due to budgetary limitations. • Bel Air SWM Plan anticipated for 2015. <p><i>City of Havre de Grace:</i></p> <ul style="list-style-type: none"> • 40% complete, remainder in progress; completion expected in 2014-2015 milestones. • GIS needs assessment complete. Awaiting final report. Will be integrated into City's new administration wide software program. • Search for grants continuous. • In progress as City database and GIS mapping efforts continue to achieve accurate data to compare with MDE's. <p><i>City of Aberdeen:</i></p> <ul style="list-style-type: none"> • Review ongoing; have a draft Sub-division Regulations that will modify our current road width standards to comply with the County Road Code • No indication of progress on stormwater credit policy. 	

Harford County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<ul style="list-style-type: none"> reductions in impervious surface, use of open section roadways where applicable. • Work on policy to offer storm-water credits on impervious area reductions throughout City. • Search for grants to complete retrofits and implement BMPs that will reduce nitrogen, phosphorus and sediment loadings. • Identify various water quality initiatives throughout the City that can be utilized by developers to offset stormwater management requirements. • High 	<ul style="list-style-type: none"> • Search for grants continuing; A City Grants Coordinator will be dedicated to this research. • No indication of progress on identifying water quality initiatives. <p><i>Programmatic efforts not included in Aberdeen's original milestones:</i></p> <ul style="list-style-type: none"> • Completed conceptual design for stormwater management (water quality) in Aberdeen well field for the reduction of nitrogen, phosphorus, and total suspended solids. Concept will be used for grant applications to seek design/construction assistance. • High 	
Public Engagement	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Although no milestones were identified, multiple public outreach efforts have been successfully undertaken.</p>
	<ul style="list-style-type: none"> • Low 	<p><i>Programmatic efforts not included in the County's original milestones:</i></p> <ul style="list-style-type: none"> • The County water resources website now contains information for home- 	<ul style="list-style-type: none"> • High

Harford County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
		<p>owners and citizens regarding the installation and maintenance of individual lot stormwater management facilities. A stormwater pollution reporting hotline and restoration project reports are also provided.</p> <ul style="list-style-type: none"> • An advisory group consisting of citizens, the development sector, commercial industry, and technical experts was established to make recommendations on the stormwater fee. Citizens were also made aware of the fee through a public information meeting. • Meetings were held with citizens in the Foster Branch community to provide their input into the various restoration options in a watershed plan. • Buffer planting projects along Plumtree, as part of daylighting project, included community participants from the Bel Air United Methodist Church as well as the Eagle Scouts. • The riparian buffer planting project, funded by the Stream Challenge grant included the assistance of 7th 	

Harford County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
		<p>grade students, assisted by the BoE and County staff. Additional help and support were also voluntarily provided by members of various organizations and the community.</p> <ul style="list-style-type: none"> • High 	
Addresses Appropriate Sectors? (Comprehensiveness)	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>The rating reflects the good quality and quantity of the initial goals. The stormwater, septic and wastewater sectors are making progress.</p>
Stormwater	<ul style="list-style-type: none"> • Commitments were made to enhance legal authorities, organizational and planning functions. • High 	<ul style="list-style-type: none"> • Significant progress was made on achieving the commitments. • High 	<ul style="list-style-type: none"> • High
Septic Systems	<ul style="list-style-type: none"> • Significant commitments were made to enhance tracking and planning functions. • High 	<ul style="list-style-type: none"> • Significant progress was made on achieving the commitments. • High 	<ul style="list-style-type: none"> • High
Wastewater Plants	<ul style="list-style-type: none"> • North Harford High School minor WWTP – pursue with the Board of Education the reconnection of the outfall to the wetlands for additional treatment of the effluent. • High 	<ul style="list-style-type: none"> • Reconnection of the outfall to the constructed wetlands will not be pursued by the Board of Education; however, upgrades to the wastewater treatment plant resulted in nitrogen reductions. • High 	<ul style="list-style-type: none"> • High <p>Although not part of the programmatic milestones, there have been several WWTPs that have been upgraded to ENR.</p>

Harford County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
BMP Implementation			<p>In its Phase II WIP, the County set 2-year reduction targets for urban storm-water and septic systems. Harford County has made a strong commitment to implementing BMPs, particularly in the areas of restoration, wastewater treatment plant upgrades and septic. Bel Air, Aberdeen and Havre de Grace continue to implement BMPs and water quality improvement projects. Final Programmatic Milestone achievements and BMP Implementation Progress for 2012-2013 are both presented in more detail in the <u>"Harford County Phase II Watershed Implementation Plan 2012-2013 Two-Year Milestones"</u> document.</p>

Howard County 2012-2013 Milestones Evaluation

The County¹ received “High” ratings in all categories of the 2012-2013 Milestones evaluation, as summarized in the following table. Most of the progress was made in the stormwater sector. More effort in the septic systems sector should be reflected in future milestones. No progress updates have been provided for the wastewater sector, for which the only major plant has already been upgraded.

Summary Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	• High	• High	<ul style="list-style-type: none"> • High <p>The commitment to a stormwater fee in advance of the State stormwater law was outstanding. The original septic system funding commitment reflected local resources would be sought as an incentive to system owners; no progress made on that commitment.</p>
Legal Authority Enhancements (e.g., new ordinances)	• High	• High	<ul style="list-style-type: none"> • High <p>New local authority to establish stormwater fund and fee rate represents significant progress.</p>
Organizational Enhancements	• Low	• High	<ul style="list-style-type: none"> • High <p>Although no explicit commitments were included in the original milestones, progress has been made on tracking/ reporting, coordination & program enhancements. Additionally, the County-wide Implementation Strategy (CIS) identified necessary organizational changes. Development of these milestones, in totality, represents significant progress.</p>
Planning/Studies	• High	• High	<ul style="list-style-type: none"> • High <p>The Countywide implementation Strategy, and various stormwater planning activities, represent significant progress.</p>

¹ Although we routinely make reference to “the County” as if it’s a single entity, it is often shorthand for an amalgam of the county and municipal governments as well as other partners.

Howard County 2012-2013 Milestones Evaluation

Public Engagement	• High	• High	• High Significant commitments to public engagement. Commitment progress meets or exceeds original milestones.
Addresses Appropriate Sectors? (Comprehensiveness)	• High	• High	• High All appropriate sectors were addressed by the milestones. The septic system sector deserves greater attention in the future. The County has only one major WWTP, which has been upgraded.
BMP Implementation			Multiple plans are in place to maintain current programs and initiate new projects. The County's 2012-2013 Programmatic Milestones Progress Status Report indicates that progress is reported through MS4 permit Annual Reporting, which is consistent with guidance provided to local jurisdictions.

Detailed Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>The commitment to a stormwater fee in advance of the State stormwater law was outstanding. The original septic system funding commitment reflected local resources would be sought as an incentive to system owners; no progress made on that commitment.</p>
Funding	<ul style="list-style-type: none"> • Complete study to structure stormwater remediation fee and implement fee once approved by County Council • Seek increased funding to expand the County-sponsored watershed enhancement grant program. • Seek additional funding for providing economic incentives to septic system owners to encourage retrofit of BAT systems. • High 	<ul style="list-style-type: none"> • The County completed the fee study and adopted the Watershed Protection and Restoration Fund (WPRF) in 2013. • Funding for the watershed enhancement program was increased in the Capital Budget between January 2012 and December 2013. • The County reported receiving “\$155,000 in new funding” for FY14. It is unclear whether this represents additional funding or on-going State funding. • High 	<ul style="list-style-type: none"> • High

Howard County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Staff: New or re-assigned	<ul style="list-style-type: none"> • Hire additional project restoration staff. • High 	<ul style="list-style-type: none"> • One project restoration engineer was hired in the DPW, BES, Stormwater Management Division and the County is prepared to hire additional staff. • High 	<ul style="list-style-type: none"> • High
Contractor Support	<ul style="list-style-type: none"> • None 	<ul style="list-style-type: none"> • None 	
Legal Authority Enhancements (e.g., new ordinances)	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>New local authority to establish stormwater fund and fee rate represents significant progress.</p>
	<ul style="list-style-type: none"> • Stormwater Fund proposed. • High 	<ul style="list-style-type: none"> • Stormwater Fund adopted. • High 	<ul style="list-style-type: none"> • Necessitated new local authority to establish fund and fee rate.
Organizational Enhancements	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Although no explicit commitments were included in the original milestones, progress has been made on tracking/reporting, coordination & program enhancements. Additionally, the County-wide Implementation Strategy (CIS) identified necessary organizational changes. Development of these milestones, in</p>

Howard County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
			totality, represents significant progress.
Internal and External Coordination	<ul style="list-style-type: none"> • No explicit commitments in original milestones; however, Countywide implementation strategy (CIS) for stormwater addresses this. • Low 	<ul style="list-style-type: none"> • The CIS commits to Identify the organizational changes needed to implement the CIS. • Medium 	<ul style="list-style-type: none"> • Medium
Tracking/Reporting	<ul style="list-style-type: none"> • No explicit commitments in original milestones; however, Countywide implementation strategy (CIS) for stormwater addresses this. • Low 	<ul style="list-style-type: none"> • Establish a reporting framework for annual reporting under the County's new MS4 permit. • Medium 	<ul style="list-style-type: none"> • Medium
New Programs	<ul style="list-style-type: none"> • Establish Watershed Stewards Academy (WSA) and hold first round of classes. • No explicit commitment. • High 	<ul style="list-style-type: none"> • The WSA was established and the first group of students is completing the course. • The County provided initial-year funding in summer 2012 for READY Rain Garden Program. • High 	<ul style="list-style-type: none"> • High
Program Enhancements	<ul style="list-style-type: none"> • No explicit commitments in original milestones; however, Countywide implementation strategy (CIS) for stormwater addresses this. • Low 	<ul style="list-style-type: none"> • Identify the organizational ... changes needed to implement the CIS. Also note changes to stormwater reporting. • Medium 	<ul style="list-style-type: none"> • Medium

Howard County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Planning/Studies	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>The Countywide implementation Strategy, and various stormwater planning activities, represent significant progress.</p>
	<ul style="list-style-type: none"> • Complete a preliminary countywide implementation strategy (CIS) for meeting all aspects of the MS4 permit and Chesapeake Bay TMDL, using existing information. • Complete evaluation of ESD stormwater opportunities on County-owned properties and begin implementation of identified retrofit projects. • Complete evaluation of dry ponds Countywide and begin implementation of identified retrofit projects • High 	<ul style="list-style-type: none"> • Draft CIS completed in July 2013. • The County completed and documented the evaluation of ESD opportunities on County-owned properties in May 2013. • The County is in the process of completing its March 2014 Draft evaluation of dry pond retrofit opportunities. • High 	<ul style="list-style-type: none"> • High
Public Engagement	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Significant commitments to public engagement. Commitment progress meets or exceeds original milestones.</p>

Howard County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<ul style="list-style-type: none"> • Establish Watershed Stewards Academy (WSA) and hold first round of classes • Develop and begin implementing an enhanced public education and outreach program based on social marketing for stormwater management, septic system pump outs, and urban nutrient management • Seek increased funding to expand the County-sponsored watershed enhancement grant program aimed at increasing citizen awareness and participation in water quality issues and projects and to provide education opportunities for Howard County residents. • Commitments not explicitly stated. • High 	<ul style="list-style-type: none"> • The Howard County WSA has been established and classes have been held. • The County is making demonstrable progress on outreach for stormwater and septic systems, the latter of which goes beyond pump outs. The County is tracking the issue of Urban Nutrient Management as it evolves in the Bay Program's Urban Nutrient Management Workgroup. The County has also made stormwater management information available through two websites. • Funding for the watershed enhancement program was increased in the Capital Budget between January 2012 and December 2013. • The County envisions hiring additional staff for outreach program development with new stormwater funds. • Draft CIS includes public engagement elements. • The County provided initial-year funding in Summer 2012 for READY Rain Garden Program. • High 	<ul style="list-style-type: none"> • High

Howard County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Addresses Appropriate Sectors? (Comprehensiveness)	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>All appropriate sectors were addressed by the milestones. The septic system sector deserves greater attention in the future. The County has only one major WWTP, which has been upgraded.</p>
Stormwater	<ul style="list-style-type: none"> • Significant investments have been made on planning, public engagement, increased staffing and funding milestone commitments. • High 	<ul style="list-style-type: none"> • Milestone commitments have been met. • High 	<ul style="list-style-type: none"> • High
Septic Systems	<ul style="list-style-type: none"> • This rating based on public education about septic system pump-outs and intent to seek funding to provide incentives for BAT retrofits. • Medium 	<ul style="list-style-type: none"> • Most milestone commitments have been met. • Medium 	<ul style="list-style-type: none"> • Medium
Wastewater Plants	<ul style="list-style-type: none"> • None 	<ul style="list-style-type: none"> • None 	<ul style="list-style-type: none"> • None <p>The County has only one major WWTP, Little Patuxent, which has been upgraded.</p>

Howard County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
BMP Implementation			Multiple plans are in place to maintain current programs and initiate new projects. The County's <u>2012-2013 Programmatic Milestones Progress Status Report</u> indicates that progress is reported through MS4 permit Annual Reporting, which is consistent with guidance provided to local jurisdictions.

Kent County 2012-2013 Milestones Evaluation

The County¹ received “High” ratings in most categories of the 2012-2013 Milestones evaluation, as summarized in the following table. Significant progress was made in the stormwater and wastewater sectors through site and BMP identification, and WWTP upgrade plans. Less progress was made in the septic sector; however, there has been significant BMP implementation.

Summary Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	• High	• High	<ul style="list-style-type: none"> • High <p>The utilization of acquired funds and contractor support for restoration projects represents significant progress. However a more complete pursuit of the original funding goals may be needed in the future.</p>
Legal Authority Enhancements, (e.g., new ordinances)	• None	• Medium	<ul style="list-style-type: none"> • Medium <p>Although no original milestones were identified, existing ordinances for stormwater, sediment control and floodplain management were updated.</p>
Organizational Enhancements	• High	• High	<ul style="list-style-type: none"> • High <p>Organizational enhancements are reflected in the coordination of multiple cooperative initiatives, particularly among municipalities and non-governmental organizations, and in efforts to develop a tracking and reporting system.</p>
Planning / Studies	• High	• Medium	<ul style="list-style-type: none"> • High <p>Although many activities remain in development, the progress is rated “High” in light of the large number of project planning commitments identified.</p>

¹ Although we routinely make reference to “the County” as if it’s a single entity, it is often shorthand for an amalgam of the county and municipal governments as well as other partners

Kent County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Public Engagement	• Medium	• High	<ul style="list-style-type: none"> • High <p>The original milestone for outreach and education to property owners has been met. Public engagement via the TMDL committee and other partnerships is significant.</p>
Addresses Appropriate Sectors? (Comprehensiveness)	• High	• High	<ul style="list-style-type: none"> • High <p>The rating reflects the good quality of the initial goals. The stormwater and wastewater sectors are making progress. Programmatic efforts in the septic systems sector are modest but some upgrades and connections are being implemented.</p>
BMP Implementation			Implementation progress is occurring in both the County and the municipalities through wetlands restoration projects, stormwater BMPs and septic upgrades, as reported in the Kent County Final Programmatic Report .

Detailed Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>The utilization of acquired funds and contractor support for restoration projects represents significant progress. However a more complete pursuit of the original funding goals may be needed in the future.</p>
Funding	<ul style="list-style-type: none"> • The Town of Chestertown is developing a restoration plan at the head of Radcliffe Cliff. Funding is being sought for this plan through a Chesapeake Bay Trust grant program. • Two scheduled restoration projects to be funded by the 2010 Local Implementation Grant program. • Identify additional stormwater management ponds in the county and towns which may qualify for retrofits and seek funding through the MD Local Implementation Grant, 	<ul style="list-style-type: none"> • No update reported on the funding progress for this plan. • Complete. • The County, with Ducks Unlimited, has identified additional swm ponds in the county which qualify for retrofits and will be funded through the remaining funding in the MD Local Implementation Grant. • The County continues to consider a stream restoration project on Mill Creek in Chesapeake Landing subdivision. Funding streams will be sought via Local Implementation Grant, Chesapeake Bay Trust Watershed Assistance Grant, or 	<ul style="list-style-type: none"> • High

Kent County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>Chesapeake Bay Trust Watershed Assistance Grant, or National Fish and Wildlife Foundation Wildlife and Habitat Conservation Charter Grant.</p> <ul style="list-style-type: none"> • Stream restoration project funding on Mill Creek (Kent County) will be sought via Local Implementation Grant, Chesapeake Bay Trust Watershed Assistance Grant, or National Fish and Wildlife Foundation Wildlife and Habitat Conservation Charter Grant. • Betterton will continue to implement funding from Maryland Urban Community Forestry Council for Urban Canopy planting projects in 2012 and 2013. • Kent County and the Town of Rock Hall will look into supplementing the cost of ENR upgrades by installing solar energy systems on land adjacent to WWTPs and using any excess power generated by their systems to offset the energy being consumed through their 	<p>National Fish and Wildlife Foundation Wildlife and Habitat Conservation Charter Grant.</p> <ul style="list-style-type: none"> • Urban Canopy and street tree implementation funding to be sought through the CBT Community Greening Grant Program. • Kent County and the Town of Rock Hall have been actively supplementing the cost of power generated at their wastewater treatment facilities by installing solar energy systems on land adjacent to WWTPs and using any excess power generated by their systems to offset the energy being consumed through their other meters. • Housing Improvement Funding is being utilized to connect homesteads in the Chesterville Forest area. • High 	

Kent County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>other meters.</p> <ul style="list-style-type: none"> • Housing Improvement Funding will be utilized to connect septic systems to an advanced WWTP. • High 		
Staff: New or re-assigned	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • Although local staff is shrinking, the County Commissioners have approved a staff person in the FY15 budget who would be assigned to develop a tracking system for the County and the Towns. This GIS Specialist will begin work on 1 July 2014. • High 	<ul style="list-style-type: none"> • High
Contractor Support	<ul style="list-style-type: none"> • Scheduled wetland restoration projects to be contracted out to Ducks Unlimited. • High 	<ul style="list-style-type: none"> • Complete. Multiple projects have been contracted out to Ducks Unlimited. • High 	<ul style="list-style-type: none"> • High
Legal Authority Enhancements (e.g., new ordinances)	<ul style="list-style-type: none"> • None 	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • Medium <p>Although no milestones were identified, existing ordinances for stormwater, sediment control and floodplain management were updated.</p>
	<ul style="list-style-type: none"> • None 	<p><i>Programmatic efforts not included in the county's original milestones:</i></p> <ul style="list-style-type: none"> • The County and the Municipalities 	<ul style="list-style-type: none"> • Medium

Kent County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
		<p>have adopted updates to their Stormwater Management and Sediment Control Ordinances. In addition, recently updated County and Municipal Floodplain Ordinances also address engineering studies required relative to fill and dispersal of floodwaters.</p> <ul style="list-style-type: none"> • Medium 	
Organizational Enhancements	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Organizational enhancements are reflected in the coordination of multiple cooperative initiatives, particularly among municipalities & non-governmental organizations, and in efforts to develop a tracking and reporting system.</p>
Internal and External Coordination	<ul style="list-style-type: none"> • Chestertown will investigate leasing/renting out the town street sweeping vehicle to the other 4 municipalities. • The Town of Chestertown is developing a restoration plan at the head of Radcliffe Cliff which 	<ul style="list-style-type: none"> • The Town of Chestertown has loaned the street sweeping vehicle to the town of Rock Hall for use during a special event. • The Town of Chestertown continues to work with MDE and the USACE to implement a restoration plan at the 	<ul style="list-style-type: none"> • High

Kent County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>is planned to treat a major intersection and shopping center located in the town.</p> <ul style="list-style-type: none"> • Identified coordination, design and engineering plans for a WWTP retrofit in Galena. • Identify additional stormwater management ponds in the county and towns which may qualify for retrofits. • Kent County will inventory county-owned and community association land for opportunities for retrofits and restoration. • Outreach and education to property owners inside and outside of the Critical Area. • High 	<p>head of Radcliffe Cliff, which is planned to treat a major intersection and shopping center located in the town.</p> <ul style="list-style-type: none"> • Design and engineering have been completed and the town and county continue to coordinate with MDE regarding its license to update the WWTP. Additionally, the County continues to coordinate with the Town of Galena with treatment plant and collection system design. • The County, in conjunction with Ducks Unlimited, has identified additional swm ponds which qualify for retrofits. • The Chester River Association is working in partnership with the County to get this initiative off of the ground. • Outreach and education to property owners inside and outside of the Critical Area continues through coordinated efforts between the local health department and watershed organizations. <p><i>Programmatic efforts not included in the county's original milestones:</i></p> <ul style="list-style-type: none"> • Kent County Department of Water 	

Kent County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
		<p>and Wastewater loans/rents sewer cleaning equipment to municipalities on a regular basis.</p> <ul style="list-style-type: none"> • High 	
Tracking/Reporting	<ul style="list-style-type: none"> • By 2013 the County will generate new standard and formal storm-water management plan forms which identify best management practices to be installed. • The County will generate a tracking and reporting mechanism of best management practice installation. • High 	<ul style="list-style-type: none"> • The County has generated the new stormwater management plan forms. • The County continues to develop a tracking and reporting mechanism of best management practice installation in the county and in the towns. This is perhaps the biggest challenge for the County. We are working closely with several partners to generate a database, but, ultimately, will most likely need to apply for a grant and hire a consultant to assist the County with this task. • Medium 	<ul style="list-style-type: none"> • Medium <p>Development of a tracking and reporting mechanism is an important commitment that should be reflected in future milestones.</p>
New Programs	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • Low
Program Enhancements	<ul style="list-style-type: none"> • See “Tracking/Reporting” milestones above. • High 	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • Medium <p>Ranking based on the activities related to “Tracking and Reporting.”</p>
Planning / Studies	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • High <p>Although many activities remain in development, the progress is rated</p>

Kent County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
			“High” in light of the large number of project planning commitments identified.
	<ul style="list-style-type: none"> • Betterton will inventory properties within the town limits for possible retrofit/restoration. • The Town of Chestertown is developing a restoration plan at the head of Radcliffe Cliff which is planned to treat a major intersection and shopping center located in the town. • Develop plan for Nicholson site in Chestertown to become trail head for the Rails to Trails path. • Town of Chestertown has identified in its Comprehensive Plan Kent Plaza and Dollar General/WIN Plaza as redevelopment sites to include: porous pavers, tree islands, and grass swales. • Kent County will inventory county-owned and community association land for opportunities for retrofits and restoration. • Stream restoration project on 	<ul style="list-style-type: none"> • The town continues to inventory properties within the town limits for possible retrofit/restoration. • The Town of Chestertown continues to work with MDE and the USACE to implement a restoration plan at the head of Radcliffe Cliff which is planned to treat a major intersection and shopping center located in the town. • Plans are currently under review at the Nicholson site relative to the development of a trail head for the Rails to Trails path. • These “Plaza” plans have not yet been implemented. • The Chester River Association is working in partnership with the County to get the retrofit inventory initiative off the ground. • The County continues to consider a stream restoration project on Mill Creek in Chesapeake Landing subdivision. Funding streams will be sought via Local Implementation 	<ul style="list-style-type: none"> • High

Kent County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>Mill Creek in Chesapeake Landing subdivision. Funding streams will be sought via Local Implementation Grant, Chesapeake Bay Trust Watershed Assistance Grant, or National Fish and Wildlife Foundation Wildlife and Habitat Conservation Charter Grant.</p> <ul style="list-style-type: none"> • Continue planning for the Forest Stewardship Planting project. • For the towns of Betterton, Chestertown, Millington and Rock Hall: Continuation of Buffer Management and Enhancement Plans and Continuation of Forest Stewardship Planting Plans. • High 	<p>Grant, Chesapeake Bay Trust Watershed Assistance Grant, or National Fish and Wildlife Foundation Wildlife and Habitat Conservation Charter Grant.</p> <ul style="list-style-type: none"> • While no specific updates have been provided, it has been noted that Kent County is committed to the continued development of Forest Stewardship Planting plans. • While no specific updates have been provided, it has been noted that the towns of Betterton, Chestertown, Millington and Rock Hall are committed to the continued development of these plans. • Medium 	
Public Engagement	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>The original milestone for outreach and education to property owners has been met. Public engagement via the TMDL committee and other partnerships is significant.</p>
	<ul style="list-style-type: none"> • Outreach and education to property owners inside and 	<ul style="list-style-type: none"> • Outreach and education to property owners inside and outside of the 	<ul style="list-style-type: none"> • High

Kent County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>outside of the Critical Area.</p> <ul style="list-style-type: none"> • Medium 	<p>Critical Area continues through coordinated efforts between the local health department and watershed organizations. Staff coordinates very closely with Environmental Health and watershed organizations in order to promote septic upgrades and other BMPs.</p> <p><i>Programmatic efforts not included in the county's original milestones:</i></p> <ul style="list-style-type: none"> • The County and Municipalities continue to engage the TMDL Committee, which includes NGOs and other stakeholders. We continue to partner with a wide variety of organizations involved with public outreach, as they apply for grants to both implement BMPs and to develop our local tracking system. County staff also continues to give presentations to a wide variety of groups regarding our WIP. <ul style="list-style-type: none"> • High 	
Addresses Appropriate Sectors? (Comprehensiveness)	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>The rating reflects the good quality of the initial goals. The stormwater and wastewater sectors are making progress.</p>

Kent County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
			Programmatic efforts in the septic systems sector are modest, but it is noted that upgrades and connections are being implemented.
Stormwater	<ul style="list-style-type: none"> • Significant commitments were made to enhance organizational and planning functions in the county as well as several municipalities. • High 	<ul style="list-style-type: none"> • Significant progress was made on achieving the commitments identified by the county and municipalities. • High 	<ul style="list-style-type: none"> • High
Septic Systems	<ul style="list-style-type: none"> • Commitment was made to outreach and education; plans for upgrades and connections of septic systems were also noted. • Medium 	<ul style="list-style-type: none"> • Outreach and education continues through coordinated efforts between the local health department and watershed organizations. The county has also been directly engaged in several grants which focused directly on septic upgrades and connections. • Medium 	<ul style="list-style-type: none"> • Medium <p>Programmatic milestones are modest but it is noted that upgrades and connections are being implemented.</p>
Wastewater Plants	<ul style="list-style-type: none"> • Develop design and engineering plans for a retrofit to the WWTP in Galena. • Betterton engineering studies to be finalized and plans for implementation to be developed for WWTP upgrades. • Galena WWTP design, construction, and planned 	<ul style="list-style-type: none"> • Design and engineering have been completed and the town and county continue to coordinate with MDE regarding its license to update the WWTP. • Betterton engineering studies have been finalized and plans for implementation. • Galena WWTP design has been 	<ul style="list-style-type: none"> • High

Kent County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>completion by the end of 2013.</p> <ul style="list-style-type: none"> • High 	<p>completed; licensing and construction are planned to occur in the near future.</p> <ul style="list-style-type: none"> • High 	
BMP Implementation			<p>Implementation progress is occurring in both the County and the municipalities through wetlands restoration projects, stormwater BMPs and septic upgrades, as reported in the Kent County Final Programmatic Report.</p>

Montgomery County 2012-2013 Milestones Evaluation

The County¹ received “High” ratings in most categories of the 2012-2013 Milestones evaluation, as summarized in the following table. The commitments in the stormwater sector were comprehensive, addressing a range of programmatic enhancements. The stormwater sector met many of its original goals and received “High” ratings in every category. Commitments that have not been completed and are ongoing should be reflected in future milestones. No milestones or progress were reported for the septic system sector. A commitment to address this sector should be articulated in future milestones. Upgrades of wastewater plants have been completed or are under construction.

Summary Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comment/Notes
Resource Enhancements	• High	• High	<ul style="list-style-type: none"> • High <p>Funding enhancements were pursued, several successfully, by both the County and municipalities. A commitment to project enhancements is reflected in contractor activities and increased staffing.</p>
Legal Authority Enhancements (e.g., new ordinances)	• High	• High	<ul style="list-style-type: none"> • High <p>Rating reflects ongoing effort by Gaithersburg to implement a City-administered stormwater fee, and the County’s adoption of Bill 34-12, providing incentives for property owners to install stormwater practices.</p>
Organizational Enhancements	• High	• High	<ul style="list-style-type: none"> • High <p>Multiple coordination efforts to advance projects have occurred between the county, Montgomery Parks and other agencies. Milestones to enhance tracking and reporting were achieved. A commitment has also been demonstrated to augment staff training and the Rainscapes Reward Program.</p>

¹ Although we routinely make reference to “the County” as if it’s a single entity, it is often shorthand for an amalgam of the county and municipal governments as well as other partners.

Montgomery County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comment/Notes
Planning/Studies	• High	• High	<ul style="list-style-type: none"> • High <p>Most of the original milestones have been achieved. In some cases, milestones that were not part of the original goals have been successfully developed and executed. The “High” rating is also indicative of the original commitments toward prioritization, restoration and assessment activities.</p>
Public Engagement	• Low	• High	<ul style="list-style-type: none"> • High <p>Although no milestones were identified, a number of outreach and education activities have been conducted and several programs intended to engage the public have been implemented.</p>
Addresses Appropriate Sectors? (Comprehensiveness)	• Medium	• Medium	<ul style="list-style-type: none"> • Medium <p>The rating balances the significant milestone commitments and progress in the stormwater sector with a lack of commitment in the septic sector, which should be addressed in future milestones.</p>
BMP Implementation			<p>Final Programmatic Milestone achievements and BMP Implementation Progress for 2012-2013 are both presented in more detail in the <u>“Montgomery County MS4 Permittees Chesapeake Bay WIP Milestones and Progress”</u> document.</p>

Detailed Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comment/Notes
Resource Enhancements	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Funding enhancements were pursued, several successfully, by both the county and municipalities. A commitment to project enhancements is reflected in contractor activities and increased staffing.</p>
Funding	<p><i>Montgomery County</i></p> <ul style="list-style-type: none"> • Capital Improvement Program (CIP) budget for FY2013-2018 is being developed to reflect the significant increase in implementation that will be needed to meet the MS4 permit requirement for adding runoff management. <p><i>City of Rockville</i></p> <ul style="list-style-type: none"> • Preserve the City's current stormwater management utility fee structure and explore options to collect fees from other governmental institutions. <p><i>City of Takoma Park</i></p> <ul style="list-style-type: none"> • Takoma Park is committed to 	<p><i>Montgomery County</i></p> <ul style="list-style-type: none"> • \$25M in FY 2013 CIP funding for the expanded construction of stormwater project implementation and design. <p><i>City of Rockville</i></p> <ul style="list-style-type: none"> • The City has preserved its equitable, polluter-pays fee structure and is still exploring options to collect fees from other governmental institutions contributing to the City's collection system. <p><i>City of Takoma Park</i></p> <ul style="list-style-type: none"> • The City successfully applied for an MDE grant for the bio-retention portion of the Ritchie and Oswego Avenue Traffic Calming Project. The 	

Montgomery County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comment/Notes
	<p>pursuing revenue sources in coordination with the State. If State and federal funding is insufficient, we will conduct contingency planning beginning in 2013 for potential adoption of revenue sources as we deem necessary to meet our current and future anticipated permit obligations.</p> <ul style="list-style-type: none"> • High 	<p>City also applied for a Federal Transportation Alternatives Program grant for the Flower Avenue Green Street Project. For FY13, Takoma Park stormwater utility fee rates increased from \$45 per Single Family residential Unit per year to \$55 per Equivalent Residential Unit (ERU).</p> <p><i>Programmatic efforts not included in original milestones:</i> <i>City of Gaithersburg</i></p> <ul style="list-style-type: none"> • The City has pursued grant funding to facilitate construction phase of Muddy Branch restoration projects. • High 	
Staff: New or re-assigned	<p><i>Montgomery Parks</i></p> <ul style="list-style-type: none"> • Increase staffing for Department of Parks for NPDES compliance using additional funding from the Montgomery County Water Quality Protection Fund. • High 	<p><i>Montgomery Parks</i></p> <ul style="list-style-type: none"> • Montgomery Parks hired 5 new employees (4.6 work years) whose work programs focus on implementation, including storm-water management, maintenance, planning, staff education, and community outreach. • High 	<ul style="list-style-type: none"> • High
Contractor Support	<p><i>City of Gaithersburg</i></p> <ul style="list-style-type: none"> • Impervious cover mapping. <p><i>City of Rockville</i></p> <ul style="list-style-type: none"> • Continue the Watts Branch 	<p><i>City of Gaithersburg</i></p> <ul style="list-style-type: none"> • The City has retained a contractor to update the City's impervious cover geodatabase by capturing 	<ul style="list-style-type: none"> • High

Montgomery County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comment/Notes
	<p>watershed study.</p> <p><i>Montgomery Parks</i></p> <ul style="list-style-type: none"> Conduct storm drain mapping and GIS analysis to better define the current storm drain network, impervious surfaces and potential restoration sites. High 	<p>and digitizing missing features such as sidewalks and driveways. The project is currently in the quality control phase, and the anticipated completion date is August 2013.</p> <p><i>City of Rockville</i></p> <ul style="list-style-type: none"> The City has contracted with a consulting firm to complete the Watts Branch Assessment. <p><i>Montgomery Parks</i></p> <ul style="list-style-type: none"> Task orders are currently in process for consultants to map three additional watersheds that feed the Anacostia. High 	
Legal Authority Enhancements (e.g., new ordinances)	<ul style="list-style-type: none"> High 	<ul style="list-style-type: none"> High 	<ul style="list-style-type: none"> High <p>Rating reflects ongoing effort by Gaithersburg to implement a City-administered stormwater fee, and the County's adoption of Bill 34-12, providing incentives for property owners to install stormwater practices.</p>
	<p><i>City of Gaithersburg</i></p> <ul style="list-style-type: none"> Adopt a new stormwater utility fee. High 	<p><i>City of Gaithersburg</i></p> <ul style="list-style-type: none"> Gaithersburg is transitioning to a City-administered stormwater utility fee, as the County will no 	<ul style="list-style-type: none"> High

Montgomery County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comment/Notes
	<p><i>City of Takoma Park</i></p> <ul style="list-style-type: none"> Changes to the [stormwater utility] fee rate will be implemented if needed in 2013. 	<p>longer collect the charge on behalf of the City. The City is currently researching options for a new fee structure, including the possibility of charging commercial customers.</p> <p><i>City of Takoma Park</i></p> <ul style="list-style-type: none"> For FY13, Takoma Park stormwater utility fee rates increased from \$45 per Single Family residential Unit per year to \$55 per Equivalent Residential Unit (ERU). <p><i>Programmatic efforts not included in original milestones:</i></p> <p><i>Montgomery County</i></p> <ul style="list-style-type: none"> Adoption of a revised Water Quality Protection Charge, "Bill 34-12". The Bill includes incentives for installation of stormwater practices by reducing the WQPC for property owners who install such practices. High 	
Organizational Enhancements	<ul style="list-style-type: none"> High 	<ul style="list-style-type: none"> High 	<ul style="list-style-type: none"> High <p>Multiple coordination efforts to advance projects have occurred between the county, Montgomery Parks and other agencies. Milestones to enhance</p>

Montgomery County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comment/Notes
			tracking and reporting were achieved. A commitment has also been demonstrated to augment staff training and the Rainscapes Reward Program.
Internal and External Coordination	<p>Montgomery Parks</p> <ul style="list-style-type: none"> • Improve NPDES coordination both internally and externally. • Plan and build stormwater retrofits and stream restoration projects as funded by the CIP budget. • High 	<p>Montgomery Parks</p> <ul style="list-style-type: none"> • Montgomery Parks worked collectively with the County Department of Environmental Protection (DEP) on a variety of projects including mapping activities, stormwater facility maintenance and public outreach. Parks staff continue to have an active dialogue with the Stormwater Partners, a coalition of environmental groups concerned about stormwater and environmental issues, on protection of water resources. • Successful coordination between Montgomery Parks and other agencies to plan and build multiple stormwater retrofits and treatment facilities. • High 	<ul style="list-style-type: none"> • High

Montgomery County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comment/Notes
Tracking/Reporting	<p><i>Montgomery Parks</i></p> <ul style="list-style-type: none"> Conduct storm drain mapping and GIS analysis to better define the current storm drain network, impervious surfaces and potential restoration sites. Medium 	<p><i>Montgomery Parks</i></p> <ul style="list-style-type: none"> Efforts continued in the GIS mapping of storm drain infrastructure within Sligo Creek, a tributary of the Anacostia River. This improved mapping is expected to enhance Montgomery Parks' ability to identify and respond to illicit discharges. Medium 	<ul style="list-style-type: none"> Medium
New Programs	<ul style="list-style-type: none"> Low 	<ul style="list-style-type: none"> Low 	<ul style="list-style-type: none"> Low
Program Enhancements	<p><i>City of Gaithersburg</i></p> <ul style="list-style-type: none"> Make enhancements to the Rainscapes Rewards Program <p><i>Montgomery Parks</i></p> <ul style="list-style-type: none"> Increase staff training on environmental/water quality issues. High 	<p><i>City of Gaithersburg</i></p> <ul style="list-style-type: none"> In 2013, the City expanded its Rainscapes Rewards rebate program to include homeowners associations, private education facilities, non-profits, and multifamily dwellings. Project eligibility requirements were revised to encourage greater participation in the program. <p><i>Montgomery Parks</i></p> <ul style="list-style-type: none"> Montgomery Parks increased staff training in pollution prevention and stormwater management with a primary focus on front line personnel. In addition to annual training, FY12 saw development of a newsletter-style outreach tool 	<ul style="list-style-type: none"> High

Montgomery County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comment/Notes
		<p>called Minnow Minutes that will be used by staff to provide targeted environmental education. The goal of each Minnow Minutes is to present focused information and everyday BMPs that staff can implement to protect valuable natural resources in parks. In addition to other training opportunities, staff participated in training on construction and maintenance of bioretention stormwater management facilities through the Montgomery College Landscape Technology Program.</p> <ul style="list-style-type: none"> • High 	
Planning/Studies	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Most of the original milestones have been achieved. In some cases, initiatives that were not part of the original goals have been successfully developed and executed. The “High” rating is also indicative of original commitments toward prioritization, restoration and assessment activities.</p>

Montgomery County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comment/Notes
	<p><i>City of Gaithersburg</i></p> <ul style="list-style-type: none"> • Plan for the Green Streets Program. • Watershed studies. <p><i>City of Rockville</i></p> <ul style="list-style-type: none"> • Identify untreated impervious areas within Rockville City limits. Upon Mayor and Council approval in FY2013, the City will identify untreated impervious surface by geolocating SWM facilities and their associated drainage areas. • Continue comprehensive watershed studies including, in FY2012, the Rock Creek watershed study. • Develop a Notice of Intent (NOI) in response the new Phase II permits that demonstrates how the City of Rockville will efficiently and effectively achieve its requirements. 	<p><i>City of Gaithersburg</i></p> <ul style="list-style-type: none"> • Biohabitats completed a Green Streets feasibility and prioritization study to determine ideal retrofit locations. To date, several projects have gone from design through construction, with plans for additional projects to be constructed. • The City completed one watershed study for the Middle Great Seneca Creek watershed. The study includes proposals for four stream restoration projects and four stormwater management retrofits. A contract for the Lower Great Seneca Creek has been awarded, and future study is planned for Muddy Branch after its completion. <p><i>City of Rockville</i></p> <ul style="list-style-type: none"> • The City has mapped approximately one third of the public and private stormwater management facility drainage areas. This data gathering effort includes identifying the pervious and impervious acres treated as well as the level of treatment. • The City completed the Rock Creek 	<ul style="list-style-type: none"> • High

Montgomery County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comment/Notes
	<p><i>Montgomery Parks</i></p> <ul style="list-style-type: none"> • Develop Notice of Intent (NOI) under next round of Phase II NPDES permits. • Plan and build stormwater retrofits and stream restoration projects as funded by the CIP budget. <p><i>City of Takoma Park</i></p> <ul style="list-style-type: none"> • In 2012 we will continue to refine our strategy for achieving TMDL goals and begin to evaluate the adequacy of the current stormwater fee system. Changes to the fee rate will be implemented if needed in 2013. • Research additional potential funding options for stormwater retrofits in the form of grants. • High 	<p>Watershed Assessment and Plan.</p> <ul style="list-style-type: none"> • MDE has not yet issued the updated NPDES Phase II MS4 permit. The City is still acting in accordance with the administratively extended permit that expired in 2008. The City is still committed to developing a detailed NOI in response to the new Phase II permit once it is issued. <p><i>Montgomery Parks</i></p> <ul style="list-style-type: none"> • MDE has not issued the new Phase II NPDES Permit so Montgomery Parks has not yet developed its NOI. • Within Montgomery Parks' Capital Improvement Program (CIP), there are two funds dedicated to pollution prevention, stormwater management and stream restoration. Using these funds and in coordination with other agencies multiple treatment facilities and retrofits were planned and built. <p><i>City of Takoma Park</i></p> <ul style="list-style-type: none"> • For FY13, Takoma Park stormwater utility fee rates increased from \$45 per Single Family residential Unit per year to \$55 per Equivalent 	

Montgomery County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comment/Notes
		<p>Residential Unit (ERU). We continued to refine our strategy by refining and developing a 5-year list of retrofit and other stormwater related projects, cost estimates, evaluation and implementation of the stormwater utility fee rates increase.</p> <ul style="list-style-type: none"> • Identification of potential grant funding sources for stormwater retrofit projects under various stages of planning. <p><i>Programmatic efforts not included in original milestones:</i></p> <p><i>City of Gaithersburg</i></p> <ul style="list-style-type: none"> • The City has explored options for the Alderwood Drive stormwater facility, including dredging and conversion to a dry pond. The City is currently under contract to conduct a feasibility study in fall 2013. • Construction documents for culvert replacement between Conservation Lane and Quince Orchard Park should be completed in 2013 for construction in 2014. • A new rain garden at Bohrer Park is in the final design stage and will be 	

Montgomery County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comment/Notes
		<p>installed as scheduling permits.</p> <p><i>City of Rockville</i></p> <ul style="list-style-type: none"> Several CIP projects not cited as milestones are being designed. <p><i>City of Takoma Park</i></p> <ul style="list-style-type: none"> Identification of 17 potential bio-retention areas. 8 BMPs including six bioretention facilities and two Filtera systems have been designed. Planning to continue the current tree planting program. High 	
Public Engagement	<ul style="list-style-type: none"> Low 	<ul style="list-style-type: none"> High 	<ul style="list-style-type: none"> High <p>Although no milestones were identified, a number of outreach and education activities have been conducted and several programs intended to engage the public have been implemented.</p>
	<ul style="list-style-type: none"> Low 	<p><i>Programmatic efforts not included in original milestones:</i></p> <p><i>Montgomery County</i></p> <ul style="list-style-type: none"> Continued to expand outreach and education to increase stormwater awareness by reaching out to 6,400 	<ul style="list-style-type: none"> High

Montgomery County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comment/Notes
		<p>residents at 71 events.</p> <ul style="list-style-type: none"> • Launched the Stream Stewards program to train County volunteers to further watershed outreach in communities. • Supported local watershed groups through capacity building and training workshops. <p><i>City of Rockville</i></p> <ul style="list-style-type: none"> • The Upper Watts Branch project has a large public involvement component. The Upper Watts Branch Citizens Task Force has been formed; the group is trying to develop recommendations about the scope of the project to be presented to the Mayor and Council. The project is also in the beginning stages of design to fix three severely eroded outfalls discharging to the main stem. <p><i>City of Takoma Park</i></p> <ul style="list-style-type: none"> • A spring and fall tree planting program offered by the city has encouraged Takoma Park citizens to install trees on private property. <p><i>Montgomery Parks</i></p> <ul style="list-style-type: none"> • Collaboration with DEP on the development of an informative 	

Montgomery County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comment/Notes
		<p>bilingual brochure on pet waste.</p> <ul style="list-style-type: none"> • Montgomery Parks continued utilizing the invaluable assistance of volunteers in FY13 through the promotion of its storm drain marking program. • High 	
Addresses Appropriate Sectors? (Comprehensiveness)	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • Medium <p>The rating balances the significant milestone commitments and progress in the storm-water sector with a lack of commitment in the septic systems sector, which should be addressed in future milestones.</p>
Stormwater	<ul style="list-style-type: none"> • Significant commitments were made to enhance resources, legal authorities, planning, organization and public engagement. • High 	<ul style="list-style-type: none"> • Significant progress was made on achieving the commitments. • High 	<ul style="list-style-type: none"> • High
Septic Systems	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • Low <p>No milestones or progress have been identified.</p>
Wastewater Plants	<ul style="list-style-type: none"> • None 	<ul style="list-style-type: none"> • None 	<ul style="list-style-type: none"> • None <p>Of the 3 major plants that serve the County, one ENR</p>

Montgomery County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comment/Notes
			upgrade has been completed and two are under construction.
BMP Implementation			Final Programmatic Milestone achievements and BMP Implementation Progress for 2012-2013 are both presented in more detail in the " Montgomery County MS4 Permittees Chesapeake Bay WIP Milestones and Progress " document.

Prince George's County 2012-2013 Milestones Evaluation

The County¹ received "High" ratings in most categories of the 2012-2013 Milestones evaluation, as summarized in the following table. Overall, the original commitments were fairly robust. The County has demonstrated close internal coordination in a number of areas. Similarly, there was good progress towards enhancing legal authority. Strong commitments and progress were made in the stormwater sector. Moderate commitments were made in the septic systems sector but progress was not fully accomplished. Follow-through on the septic systems sector commitments should be reflected in future milestones. No progress updates have been provided for the wastewater sector, for which upgrades at major plants are either underway or completed.

Summary Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	• High	• High	• High Very strong progress was made through grant/funding acquisitions, contractor support and budgetary planning for the hiring of additional staff.
Legal Authority Enhancements (e.g., new ordinances)	• High	• High	• High Legislation was adopted that provides additional funding for restoration and retrofit programs. Regulations for maintenance guidance of OSDS and nutrient reduction systems were introduced, but were put on hold.
Organizational Enhancements	• High	• High	• High Significant progress in all aspects of organizational enhancements, particularly through coordination and tracking/reporting. Several programs, such as "The Stormwater Benefits Program" have been developed, or are in the process of being developed.

¹ Although we routinely make reference to "the County" as if it's a single entity, it is often shorthand for an amalgam of the county and municipal governments as well as other partners.

Prince George's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Planning/Studies	• High	• High	<ul style="list-style-type: none"> • High <p>Considerable progress has been made on most milestones. Milestones that were not met were still addressed and plans are in place for future progress.</p>
Public Engagement	• Low	• High	<ul style="list-style-type: none"> • High <p>While no commitments to public engagement were identified in original milestones, the County has since created a new agency division with a specific mission to provide outreach and education to local communities.</p>
Addresses Appropriate Sectors? (Comprehensiveness)	• High	• High	<ul style="list-style-type: none"> • High <p>Overall "High" rating is based on significant progress in the stormwater sector and some progress on strong milestones in the septic sector. No milestones were set for wastewater plants, as ENR upgrades to major plants are either underway or complete.</p>
BMP Implementation			<p>While County BMP implementation is submitted separately to MDE for annual progress reporting, some implementation progress was included in the Prince George's County 2-Year Milestones Report. It is acknowledged that numerous BMP implementation projects have been completed, including septic upgrades, stormwater retrofits and various restoration projects.</p>

Detailed Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Very strong progress was made through grant/ funding acquisitions, contractor support and budgetary planning for the hiring of additional staff.</p>
Funding	<ul style="list-style-type: none"> • Prince George's County will initiate a research study with the University of Maryland to determine BMP efficiencies for new technologies to reduce nutrients in a more cost effective manner. • The County plans to update its CIP for 2013–2018 to reflect the needs for stormwater BMP installations for WIP implementation. • The County will continue funding capital improvements projects and NPDES program through Stormwater Management Tax. • The County will continue to look for and apply for state and 	<ul style="list-style-type: none"> • 50 percent of the total cost for Phase I BMP efficiency project with the University of Maryland is funded by the National Fish and Wildlife Foundation. • The County will continue to implement and use the Stormwater Management Enterprise Fund, EF49 (<i>ad valorem</i> tax), funding for traditional stormwater related programs, projects, and support services. The County is also developing and will implement a funding strategy, in addition to the EF49 revenue, in response to the programmatic and funding mandates of House Bill (HB) 987. The County's stormwater fee structure will be based on impervious area. 	<ul style="list-style-type: none"> • High

Prince George's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>federal grants to assist in WIP implementation.</p> <ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • The County will continue to use the revenue from the Stormwater (<i>ad valorem</i> tax) to help fund stormwater management programs and pay debt service on CIP bond sales. The County continues to fund CIP expenditure levels for NPDES programs. • In 2012 and 2013 the county was awarded 9.2 million dollars in funding. The County is developing two additional proposals for state grant funding and cost-share assistance from U.S. Army Corps of Engineers (USACE) for an additional project. <ul style="list-style-type: none"> • High 	
Staff: New or re-assigned	<ul style="list-style-type: none"> • The County Department of Environmental Resources (DER) will develop an organizational plan that includes the responsibilities of existing staff and new hires and a schedule and funding strategy for new hiring to appropriately implement WIP. <ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • DER has included in its FY 2014 budget 10 new positions and 8 new positions for FY 2015 to support these mandates. In addition, the Department of Permits, Inspections and Enforcement (DPIE) has included in its FY 2015 budget request, 20 new positions FY 2015 to support these mandates. <ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High
Contractor Support	<ul style="list-style-type: none"> • On the basis of a study which evaluates funding via a 	<ul style="list-style-type: none"> • A consultant contract to develop options for a new water quality 	<ul style="list-style-type: none"> • High

Prince George's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>stormwater fee, the County might add a stormwater fee to fund WIP implementation. The County plans on hiring a consultant to conduct a detailed financial analysis to refine their preliminary funding strategy.</p> <ul style="list-style-type: none"> • The DER will develop an organizational plan that includes the responsibilities of existing staff and new hires and a schedule and funding strategy for new hiring to appropriately implement WIP. • The Department of Public Works and Transportation (DPW&T) will implement a program to identify rural roadways that could be considered treated because of being [hydrologically] disconnected. • [DPIE,] DER, DPW&T, SCD, and M-NCPPC will work together to ensure the development and completion of the revised Stormwater Management Design Manual 	<p>restoration fee was executed in September 2012. This Milestone has been completed.</p> <ul style="list-style-type: none"> • The SMD (Stormwater Division) is currently in the process of selecting a consulting service to carry out the County's NPDES inspection programs (BMPs, SWPPP, IDDE & Outfall Sampling). We anticipate contract award early March 2014. The County has initiated a Public/Private Partnership (P3) Program. Under this Program, the County will enter into agreement with a private entity for the design, construction, and long term maintenance of BMPs. • DPW&T has allocated \$200,000 to initiate a consultant based contract for program oversight for identifying hydrologically disconnected roads. This task will commence during FY 2014 and continue through FY 2016. • The County secured the services of an engineering consultant to lead the stormwater management design manual revision process. The draft document was sent to the MDE Stormwater Management Office for their review and concurrence. 	

Prince George's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<ul style="list-style-type: none"> The County will complete field-verifying existing BMPs that are missing BMP information in the County database. The County will finalize the BMP database with updated drainage areas and update its BMP information with MDE. High 	<ul style="list-style-type: none"> DPW&T, Office of Highway Maintenance, is in the process of developing the scope of services for a consultant to capture drainage areas for public BMPs, and field identify any other missing BMPs from the inventory. High 	
Legal Authority Enhancements (e.g., new ordinances)	<ul style="list-style-type: none"> High 	<ul style="list-style-type: none"> High 	<ul style="list-style-type: none"> High <p>Legislation (County CB 2012 - 45) was adopted that provides additional funding for restoration and retrofit programs. Regulations for maintenance guidance of OSDS and nutrient reduction systems were introduced, but were put on hold.</p>
	<ul style="list-style-type: none"> The County plans to update its CIP for 2013–2018 to reflect the needs for stormwater BMP installations for WIP implementation. The Health Department will introduce revised County Regulations (Subtitle 22) in 	<ul style="list-style-type: none"> A new Watershed Protection Restoration Program was legislated under the County's CB-45-2013, and created a dedicated fund for restoration work. Additionally, the County has passed a new resolution CR-59-2013 that establishes a fee structure imposed on county 	<ul style="list-style-type: none"> High

Prince George's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>2012–2013 for on-site sewage disposal systems that will include pertinent state legislation passed during the upcoming legislative session. The regulations will provide maintenance guidelines for on-site sewage disposal systems and guidance for the appropriate use of nutrient reduction systems.</p> <ul style="list-style-type: none"> • Prince George's County will look into developing a residential stormwater benefits program similar to Montgomery County's RainScapes program. • High 	<p>properties as new revenue source that gets deposited in the Watershed Protection Restoration fund. These two pieces of legislation meet the requirements under HB 987. This Milestone has been completed.</p> <ul style="list-style-type: none"> • The regulations were introduced, but were put on hold because of (1) the development of the new State of Maryland Regulations regarding BAT systems and (2) the County introducing the new Department of Permitting, Inspection and Enforcement. • This milestone has been completed through CB 40-2012: Stormwater Management Retrofit Program. This bill—passed June 24, 2012—established the Rain Check Rebate Program. The program became operational as of July 1, 2013. • High 	
Organizational Enhancements	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Significant progress in all aspects of organizational enhancements, particularly through coordination and</p>

Prince George's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
			tracking/reporting. Several programs, such as "The Stormwater Benefits Program" have been developed, or are in the process of being developed.
Internal and External Coordination	<ul style="list-style-type: none"> • Prince George's County will initiate a research study with the University of Maryland to determine BMP efficiencies for new technologies to reduce nutrients in a more cost effective manner. The strategy requires full partnership of MDE and EPA to ensure that the County reaches its 2017 and 2025 goals. • Prince George's County is expecting a new MS4 permit to be issued in 2012. The County is aware of the new requirements and has started to and will continue to prepare for its implementation. • The County will complete a study that will evaluate funding via a stormwater fee that is based on impervious area. The 	<ul style="list-style-type: none"> • Phase I of the BMP efficiency research project with the University of Maryland is in progress, with 50 percent of the Phase I project cost funded by the National Fish and Wildlife Foundation. • Coordination with MDE to finalize an NPDES MS4 permit has been completed. • Interagency workgroup representatives traveled throughout the County to meet with all municipalities in the fall of 2012 to brief elected municipal officials and staff on the purpose and projected timeline of new system of stormwater charges. • DPW&T has developed linkage between the concept plan BMP geodatabase and the DPWT NPDES Enterprise GIS site on the County's network. 	<ul style="list-style-type: none"> • High

Prince George's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>County will work with state regarding requirements for and feasibility of stormwater fee-based funding.</p> <ul style="list-style-type: none"> • Various departments in the County will work together to form a workgroup to build a standardized data collection methodology regarding BMPs, land use, permit issuance, and other data related to analyzing existing and future growth and WIP implementation. • [DPIE,] DER, DPW&T, SCD, and M-NCPPC will work together to ensure the development and completion of the revised Stormwater Management Design Manual. • Prince George's County will look into developing a residential stormwater benefits program similar to Montgomery County's RainScapes program. • The Health Department will work with the Washington Suburban Sanitary Commission (WSSC) to develop a method to 	<ul style="list-style-type: none"> • Numerous meeting were held with key stakeholders from DPIE, DPW&T, DER, Soil Conservation District (SCD), and M-NCPPC in order to solicit and incorporate comments into the revised manual. • This milestone has been completed (CB-40-2012). DER will continue to identify opportunities to work with private nonprofit organizations to evaluate, design and construct smaller BMPs on private properties, to provide treatment of impervious areas to meet the MS4 Permit, and the WIP requirements. • The Health Department contacted WSSC regarding the development of a tracking method for conversions to WWTP. The Health Department will continue to pursue collaboration with WSSC. Because of the proposed septic regulations that were put on hold, the Health Department has not contacted septic haulers regarding a pump out database. • High 	

Prince George's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>track septic systems that are connected to an advanced WWTP. Similarly, the Health Department will work with septic system pump-out companies to develop a method of tracking septic system pump-outs.</p> <ul style="list-style-type: none"> • High 		
Tracking/Reporting	<ul style="list-style-type: none"> • Various departments in the County will work together to form a workgroup to build a standardized data collection methodology regarding BMPs, land use, permit issuance, and other data related to analyzing existing and future growth and WIP implementation. • The DPW&T Office of Engineering [now DPIE] will initially collect and track data relating to stormwater management BMPs for new development and redevelopment areas. • Prince George's County recently adopted a new stormwater management ordinance (CB 15), which 	<ul style="list-style-type: none"> • DPIE evaluated permit tracking systems to identify methodologies for reporting and sharing stormwater management data for new development, redevelopment, stream and watershed restoration projects. Using the <i>ePermits</i> permitting software system, the County is able to capture all proposed land development activity prior to application stage. During 2012, <i>ePermits</i> was enhanced to better support land development tracking and reporting. <i>ePlan</i> is used to review digital plan submissions, electronically transfer comments, and catalog project files. DPW&T has developed linkage between the concept plan BMP geodatabase and the DPWT NPDES Enterprise GIS site 	<ul style="list-style-type: none"> • High

Prince George's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>references the County Code to update stormwater regulations and encourage environmental site design (ESD) to the maximum extent practicable (MEP), green building for retrofit, redevelopment and new development in line with MDE stormwater management water quality requirements.</p> <ul style="list-style-type: none"> • The M-NCPPC Planning Department will create a future land use map for Prince George's County using community plans. The process will include establishing consistent land use categories for the County. • Prince George's County will complete field-verifying existing BMPs that are missing BMP information in the County database. The County will finalize the BMP database with updated drainage areas and update its BMP information with MDE. • The Health Department will work with the Washington 	<p>on the County's network. This data may also serve as a valuable tool for tracking and evaluating WIP progress by watershed after permitting and construction has been completed.</p> <ul style="list-style-type: none"> • DPIE has been collecting and tracking data relating to stormwater management BMPs for new development and redevelopment areas through all project phases—from conceptual plan approval through final construction completion. • The County is tracking new and redevelopment activities to ensure ESD practices are evaluated as the first option for stormwater control. Since the ordinance was enacted, DPIE has been using the development review and permitting processes a means of enforcement. • The M-NCPPC Planning Department has started work on this milestone and is currently in progress. They have identified the land use categories that will be used for future master planning. • DER has an inventory of approximately 1,600 BMPs consisting 	

Prince George's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>Suburban Sanitary Commission (WSSC) to develop a method to track septic systems that are connected to an advanced WWTP. Similarly, the Health Department will work with septic system pump-out companies to develop a method of tracking septic system pump-outs.</p> <ul style="list-style-type: none"> • High 	<p>of both private and public facilities. DER has captured drainage areas for all private BMPs in the inventory.</p> <ul style="list-style-type: none"> • The Health Department contacted WSSC regarding the development of a tracking method for conversions to WWTP. WSSC indicated that they do not have the ability to track this information at this time. Because the proposed septic regulations were put on hold, the Health Department has not contacted septage haulers regarding a pump out database. <p>• High</p>	
New Programs	<ul style="list-style-type: none"> • DPW&T will implement a program to identify rural roadways that could be considered treated because of being [hydrologicaly] disconnected. That will be accomplished using GIS to identify the rural roadways that will be credited and removed from the County's total untreated impervious surface area. • The County will look into developing a residential stormwater benefits program 	<ul style="list-style-type: none"> • The County is using two methodologies to evaluate water quality retrofit credit for existing rural roadways. • This milestone has been completed through CB 40-2012: Stormwater Management Retrofit Program. Prince George's County has developed a stormwater benefits program (Rain Check Program) funded through the Stormwater Management District Fund. • The County has initiated a Public/Private Partnership (P3) Program. Under this Program, the 	<ul style="list-style-type: none"> • High

Prince George's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>similar to Montgomery County's RainScapes program. The program would promote technologies, such as rain gardens, rain barrels, dry wells, and permeable pavement on residential areas.</p> <ul style="list-style-type: none"> • The County is also in the process of developing a Private Public Partnership intended to accelerate the restoration of impervious surfaces. • High 	<p>County will enter into agreement with a private entity for the design, construction, and long term maintenance of BMPs under the County's impervious restoration program.</p> <ul style="list-style-type: none"> • High 	
Program Enhancements	<ul style="list-style-type: none"> • The County is currently in the process of re-structuring agency responsibilities which will include the creation of two new divisions, the Department of Permits, Inspections and Enforcement (DPIE) and the Sustainability Initiatives Division (SID). • High 	<ul style="list-style-type: none"> • DPIE and SID have been created. DPIE will manage all permitted project submissions at one intake point and from there plans will be pre-screened and electronically distributed for review via <i>ePlan</i> with the project status tracked in the case workflow in <i>ePermits</i>. The SID mission is to launch various new outreach & education initiatives (water, air, energy, and community partners) to better serve the needs of our communities. • High 	<ul style="list-style-type: none"> • High

Prince George's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Planning/Studies	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Considerable progress has been made on most milestones. Milestones that were not met were still addressed and plans are in place for future progress.</p>
	<ul style="list-style-type: none"> • Prince George's County will initiate a research study with the University of Maryland to determine BMP efficiencies for new technologies to reduce nutrients in a more cost effective manner. • The County is expecting a new MS4 permit to be issued in 2012. The County is aware of the new requirements and has started to and will continue to prepare for its implementation. • The County will complete a study that will evaluate funding via a stormwater fee that is based on impervious area. • The County will identify, target, and protect sensitive watersheds, including water supply reservoirs, by using the 	<ul style="list-style-type: none"> • The BMP efficiency research project with the University of MD is in progress. The County has added a Phase II to the project to further investigate additional design alternatives, as the preliminary results are very encouraging. • In May 2012, the County submitted its revised WIP to MDE, outlining a scheduled work plan that is consistent with the conditions of the County's March 2011 NPDES MS4 draft permit. • A County feasibility study to evaluate a new stormwater funding mechanism to support WIP implementation is no longer necessary, as HB 987 mandates all MS4 jurisdictions develop a system of charges and a watershed restoration program to support 	<ul style="list-style-type: none"> • High

Prince George's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>biological, chemical and Basin Condition Scoring and the Sensitive Areas identified by DNR.</p> <ul style="list-style-type: none"> • The M-NCPPC Planning Department will create a future land use map for Prince George's County using community plans. The process will include establishing consistent land use categories for the County. • DPW&T will reduce the existing untreated impervious surfaces through the Green Streets Program Initiative. • In accordance with the County's anticipated new MS4 permit, the County will develop a long-term schedule for completing detailed assessments for each County watershed and wasteload allocation implementation plans for each TMDL. • The County will assess and identify near-term retrofit project sites. • All DPW&T capital 	<p>compliance with WIP mandates. This Milestone has been completed.</p> <ul style="list-style-type: none"> • The County has not identified sensitive watersheds using the Basin Condition Scoring method; however the County is addressing this milestone indirectly by continuing to encourage LID and other restoration practices in sensitive watersheds, including those covered by TMDLs. • The M-NCPPC Planning Department has started work on this milestone and is currently in progress. They have identified the land use categories that will be used for future master planning. • There are ten projects currently in different phases. For the Green Streets Program, A draft design manual was completed in FY 2013. The Office of Engineering and Project Management (OEPM) will commence work on the Green Streets/Complete Streets Design Manual in FY 2013–FY 2014. • The County is deferring this milestone until it receives its new MS4 permit. The SMD is currently reviewing consultant services 	

Prince George's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>improvement projects that involve roadways and bridges by their nature [will continue to] include water quality amenities.</p> <ul style="list-style-type: none"> • OEPM has implemented a feasibility study to identify mitigation opportunities during FY 2014. • High 	<p>qualifications to develop the County's Local TMDL Implementation Plans, which will come due one year after the issuance of the County's MS4 permit. We anticipate and award by the 1st quarter of 2014.</p> <ul style="list-style-type: none"> • The County is currently making progress towards its goals. Several sites have been identified and projects have been initiated. • DPW&T have projects in various stages (e.g., complete, planning, design and construction). • The feasibility study was completed. OEPM embarked on funding and establishing a wetland banking project that could be used for WIP credits over and above project impact mitigation. • High 	
Public Engagement	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>While no commitments to public engagement were identified in their original milestones, the County has since created a new agency division with a specific mission to provide</p>

Prince George's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
			outreach and education to local communities.
	<ul style="list-style-type: none"> • None 	<ul style="list-style-type: none"> • The County created a Sustainability Initiatives Division, whose mission is to launch various new outreach & education initiatives (water, air, energy, and community partners) to better serve the needs of our communities. The primary goal for these initiatives is to ensure WIP II and NPDES county commitments are translated into our communities for coordination and awareness. 	
Addresses Appropriate Sectors? (Comprehensiveness)	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Overall "High" rating is based on significant progress in the stormwater sector and some progress on strong milestones in the septic sector. No milestones were set for wastewater plants, as ENR upgrades to major plants are either underway or complete.</p>
Stormwater	<ul style="list-style-type: none"> • Significant commitments were made to enhance legal authority and planning 	<ul style="list-style-type: none"> • Significant progress was made on achieving the commitments. • High 	<ul style="list-style-type: none"> • High

Prince George's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>functions.</p> <ul style="list-style-type: none"> • High 		
Septic Systems	<ul style="list-style-type: none"> • Commitment made to enhance legal authority and tracking/reporting functions. • High 	<ul style="list-style-type: none"> • Modest progress was made toward meeting strong programmatic milestones in legal authority and tracking/reporting functions. • Medium 	<ul style="list-style-type: none"> • Medium <p>Follow-through on milestones in the septic sector should be reflected in future milestones.</p>
Wastewater Plants	<ul style="list-style-type: none"> • None 	<ul style="list-style-type: none"> • None 	<p>The County has stated that no programmatic milestones are anticipated to enable ENR upgrades, as ENR upgrades at major wastewater treatment plants are already planned, started, or completed.</p>
BMP Implementation			<p>While County BMP implementation is submitted separately to MDE for annual progress reporting, some implementation progress was included in the Prince George's County 2-Year Milestones Report. It is acknowledged that</p>

Prince George's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
			numerous BMP implementation projects have been completed, including septic upgrades, stormwater retrofits and various restoration projects.

Queen Anne's County 2012-2013 Milestones Evaluation

The County¹ received “High” ratings in all categories of the 2012-2013 Milestones evaluation, as summarized in the following table. The County Milestones reflect a systematic approach. Although some progress was made in the stormwater sector, most of the progress occurred in the septic and wastewater sectors. Going forward, the original commitments to ongoing legal authority enhancements in the septic sector should be reflected in future milestones. More robust milestones regarding the stormwater sector should be set in the future. Opportunities also remain for program enhancements.

Summary Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	• High	• High	• High Significant commitments were set to secure grant funding. Progress exceeded the original commitments and enabled staffing enhancements.
Legal Authority Enhancements (e.g., new ordinances)	• High	• High	• High New ordinances have been adopted to ensure septic upgrades and ordinance reviews for stormwater, sediment and erosion control are complete. Moderate commitment was made to ongoing septic pump-outs.
Organizational Enhancements	• High	• High	• High Significant investments were made in coordination across many sectors. Notable progress was made in developing and populating a new project tracking system. Effort was also made toward program development and enhancements, although the outcomes were limited.

¹ Although we routinely make reference to “the County” as if it’s a single entity, it is often shorthand for an amalgam of the county and municipal governments as well as other partners.

Queen Anne's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Planning/Studies	• High	• High	<ul style="list-style-type: none"> • High <p>Good progress through the creation of a project tracking spreadsheet and the initiation of a study to evaluate the impacts of a community sewer and water service. All commitments could not be completed due to a lack of county resources.</p>
Public Engagement	• High	• High	<ul style="list-style-type: none"> • High <p>Development of several outreach projects demonstrates good progress in this area.</p>
Addresses Appropriate Sectors? (Comprehensiveness)	• High	• High	<ul style="list-style-type: none"> • High <p>A strong commitment to the original goals was demonstrated based on legal enhancements, public engagement and planning accomplishments. Notably, this includes septic BNR requirements, as well as ongoing pump-outs. Moderate commitment to review of the County's Stormwater Management Ordinance.</p>
BMP Implementation			<p>Implementation progress has been made through the completion of stormwater retrofits, septic upgrades and restoration projects, as reported in the County's "Phase II WIP 2012-2013 Milestones Update".</p>

Detailed Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Significant commitments were set to secure grant funding. Progress exceeded the original commitments and enabled staffing enhancements.</p>
Funding	<ul style="list-style-type: none"> • The County will actively pursue grants and additional revenue sources and the assistance of all interested in helping bring down the anticipated high costs of WIP related projects. • The County will continue to pursue funding to support its preservation programs. • Queen Anne's County will seek grant funding for various projects and programmatic changes that will assist the County with implementation of WIP strategies. • The County will establish a list of possible funding sources for those who may be interested in obtaining funding for 	<ul style="list-style-type: none"> • Grant group – representatives from DPW, P&Z and P&R meet on a monthly basis to discuss on-going grants, upcoming grants and grants that are on the horizon that may be applicable to the county's needs. • QAC Ag certification has been completed. FY 12-13: Current applications are pending. Offers have been submitted and settlements are expected within the upcoming year. • Queen Anne's County applied for/was awarded the CoastSmart Communities Initiative Grant, the Watershed Service Unit Watershed Assistance Grant: Natural Vegetated Filters Grant and a 319 Grant in 2012. • Completed and posted on the County website. 	<ul style="list-style-type: none"> • High

Queen Anne's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	restoration projects. • High	• High	
Staff: New or re-assigned	• Low	• Grant funding has allowed the County to otherwise offset budget funding and allow for a fulltime staff person to complete the update of Chapter 14 (Critical Area regulation). • High	• High Although no explicit staffing commitment was identified in the original milestones, important staffing needs were met via a grant.
Contractor Support	• None	• None	• None
Legal Authority Enhancements (e.g., new ordinances)	• High	• High	• High New ordinances have been adopted to ensure septic upgrades and ordinance reviews for stormwater, sediment and erosion control are complete. Moderate commitment was made to ongoing septic pump-outs.
	• All new, replacement or upgrades of existing septic tanks in the Critical Area are required to be nitrogen removing systems. • The County has an established an on-going program that requires all septic systems to be	• On-going. QAC MWSP Section 5.2.4 requires BNR for all new septic systems in the Critical Area or within 100' of stream buffer. • Ongoing. County Code: Article XXVII Private Wastewater Systems, Section 24-166, Mandatory Septic Pump-outs. • Up to date.	• High

Queen Anne's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>pumped out over a five (5) year period.</p> <ul style="list-style-type: none"> • Review the County's Stormwater Management Ordinance to find areas that have the possibility for amendment to assist in the facilitation of stormwater retrofits. • Review the County's Sediment and Erosion Control Ordinance to find areas that have the possibility for amendment to assist in the facilitation of the WIP. • Queen Anne's County aims to provide enhanced protection measures and management of the Chesapeake Bay Critical Areas by updating the Queen Anne's County Environmental Protection Code; Chesapeake Bay Critical Area Program. • The County will seek grant funding for various projects and programmatic changes. • High 	<ul style="list-style-type: none"> • Up to date. • Queen Anne's County Chapter 14, Chesapeake Bay Critical Area Regulations is currently undergoing a major update. • CoastSmart Community Initiative Grant 2012 supported Floodplain Ordinance Update. • High 	

Queen Anne's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Organizational Enhancements	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Significant investments were made in coordination across many sectors. Notable progress was made in developing and populating a new project tracking system. Effort was also made toward program development and enhancements, although the outcomes were limited.</p>
Internal and External Coordination	<ul style="list-style-type: none"> • Evaluate the impacts of providing community sewer and water service to areas of the county that have been identified by the Department of Environmental Health to have failing septic systems. • Seek collaboration between the county and towns to create a program to plan and implement WIP strategies. • Queen Anne's County is willing to work with the State, as needed, to refine the cost estimates and identifying 	<ul style="list-style-type: none"> • The County Commissioners continue to explore options related to the idea of extending sewer to southern Kent Island. Staff members of Queen Anne's County, Maryland Dept. of Planning and Maryland Dept. of the Environment are working together to examine any and all issues regarding this potential project. • Queen Anne's County partnered with the Town of Centreville and the State of Maryland to construct three Natural Filters projects on local county/municipal lands. • The County has been working with 	<ul style="list-style-type: none"> • High

Queen Anne's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>potential funding options. The County expects that the combination of federal and State revenue sources as well as local "in-house" services will be needed.</p> <ul style="list-style-type: none"> • The County will continue to work with the municipalities within the County that seek to upgrade current WWTP or expand the current service area. • Continue to work cooperatively with such agencies as Soil Conservation, Natural Resource Conservation Service and University of Maryland Extension. • Work and partner with citizen and environmental groups to identify concerns and problems. Partnerships formed between the County, municipalities and citizens groups may improve the chances of winning grants. • Continue to support the work done by the citizen and environmental groups, whose projects include wetland restoration, rain garden 	<p>the State to determine possible funding options with regard to the potential sewer extension to southern Kent Island.</p> <ul style="list-style-type: none"> • Queenstown and Centreville are currently going through the process to permit an increase in the capacity of their WWTPs. • Ongoing coordination with agencies. • In 2012 starting working in partnership with the Wye Riverkeeper to do an assessment of the Wye River watershed that will serve to identify problem areas within the watershed and potential BMP's to address them. • In 2013 supported a grant proposal from the Chester River Association to explore the possibility of a nutrient trading program. • Ongoing • Queen Anne's County has attended numerous meetings with Critical Area Commission staff to discuss various projects. • Ongoing • High 	

Queen Anne's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>construction, storm water retrofits, water quality monitoring, education & outreach and more.</p> <ul style="list-style-type: none"> • Queen Anne's County wishes to work closely with Critical Area Commission staff in developing innovative language and floodplain information, nutrient reduction, wetland and habitat protection and restoration. • Through the use of the Council of Governments, Queen Anne's County will communicate with the towns to inform them about what the County is coordinating with respect to WIP implementation. • High 		
Tracking/Reporting	<ul style="list-style-type: none"> • The County will seek to establish a systematic structure for tracking projects within the county that assist in reducing the nutrients that flow into the Chesapeake Bay. • Inventory will be taken of what, if any, projects in the county or towns have been recently completed and mistakenly 	<ul style="list-style-type: none"> • Created a spreadsheet to track projects. The spreadsheet and tracking process may need some refinement in the future. • Completed. Projects accounted for back to 2007. <p><i>Programmatic effort not included in County's original milestones:</i></p> <ul style="list-style-type: none"> • Critical Area Mapping Update: For this mapping project, a team of 	<ul style="list-style-type: none"> • High

Queen Anne's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>overlooked and not accounted for in the MAST tool.</p> <ul style="list-style-type: none"> • High 	<p>professionals from the Critical Area Commission, the DNR, Salisbury University, the Eastern Shore Regional GIS Cooperative, and Queen Anne's County Planning & GIS Staff are working together to complete this endeavor.</p> <ul style="list-style-type: none"> • High 	
New Programs	<ul style="list-style-type: none"> • Evaluate the merits of creating a program to purchase easements on farms with the intention of creating buffer strips along waterways and/or road front ditches. • No explicit commitment made to exploring development of a nutrient trading program. • Work closely with the Critical Area Commission in developing...an outreach and assessment program to educate the public about protection and management programs. • Medium 	<ul style="list-style-type: none"> • Completed. However, current resources are not sufficient to create such a program. • Although no explicit commitment was identified in the original milestones, the County supported a grant proposal from the Chester River Association to explore the possibility of a nutrient trading program. • Aside from working to educate local realtors and attending a Bay Area Assn of Realtor Expo, little progress was reported on the Critical Area outreach and assessment program. • Medium 	<ul style="list-style-type: none"> • Medium
Program Enhancements	<ul style="list-style-type: none"> • The County will seek grant funding for various projects and programmatic changes that will assist the County with implementation of WIP 	<ul style="list-style-type: none"> • The County's Chapter 14, Chesapeake Bay Critical Area Regulations, is currently undergoing major update. • CoastSmart Community Initiative Grant 2012 supported Floodplain 	<ul style="list-style-type: none"> • Medium

Queen Anne's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>strategies.</p> <ul style="list-style-type: none"> • Medium 	<p>Ordinance Update.</p> <ul style="list-style-type: none"> • Medium 	
Planning/Studies	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Good progress through the creation of a project tracking spreadsheet and the initiation of a study to evaluate the impacts of a community sewer and water service. All commitments could not be completed due to a lack of county resources.</p>
	<ul style="list-style-type: none"> • Evaluate the impacts of providing community sewer and water service to areas of the county that have been identified by the Department of Environmental Health to have failing septic systems. • The Town of Centreville plans to do several projects within this milestone period. Projects may include, but are not limited to, Storm Drain Outfall Improvements, Stream Restoration Projects, Dam removal and Bio-swale creation. • Evaluate the merits of creating 	<ul style="list-style-type: none"> • Initiated through the Southern Kent Island Sanitary Project. • The extent of progress for the projects in the Town of Centreville is unclear. • Current County resources are not sufficient enough to create such a program. • Completed. The tracking spreadsheet has accounted for projects back to 2007. • High 	<ul style="list-style-type: none"> • High

Queen Anne's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>a County program to purchase easements on farms with the intention of creating buffer strips along waterways and/or road front ditches that will absorb nitrogen and stabilize soils.</p> <ul style="list-style-type: none"> • Inventory will be taken of what, if any, projects in the county or towns have been recently completed and mistakenly overlooked and not accounted for in the MAST tool. • High 		
Public Engagement	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Development of several outreach projects demonstrates good progress in this area.</p>
	<ul style="list-style-type: none"> • Complete projects each year that will provide for stormwater quality management. • The Town of Centreville plans to do several projects within this milestone period. • Queen Anne's County wishes to work closely with Critical Area Commission staff in developing an outreach and assessment 	<ul style="list-style-type: none"> • Created a pamphlet highlighting projects within our communities, on our farms, in our towns, at our schools and in our parks that assist in our overall efforts to clean up our waterways. Created a video further detailing a few projects highlighted within the pamphlet. • Town of Centreville continues a comprehensive outreach, education, 	<ul style="list-style-type: none"> • High

Queen Anne's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>program to educate the public about protection and management programs.</p> <ul style="list-style-type: none"> • High 	<p>and social marketing campaign to raise awareness about the Corsica River Watershed, focusing on the goals in the Corsica River Watershed Restoration Action Strategy (WRAS).</p> <ul style="list-style-type: none"> • In 2012 & 2013 Queen Anne's County Planning & Zoning hosted a joint meeting with [the Commission] to educate local realtors about the basics of Critical Area and upcoming changes in the regulations. <ul style="list-style-type: none"> • High 	
Addresses Appropriate Sectors? (Comprehensiveness)	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>A strong commitment to the original goals was demonstrated based on legal enhancements, public engagement and planning accomplishments. Notably, this includes septic BNR requirements, as well as ongoing pump-outs. Moderate commitment to review of the County's Stormwater Management Ordinance.</p>

Queen Anne's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Stormwater	<ul style="list-style-type: none"> Moderate commitments were made to support public engagement and legal authority enhancement. Additional planning commitments were made by the Town of Centreville. Medium 	<ul style="list-style-type: none"> Progress is consistent with original commitment for public engagement and legal authority enhancement. However, it is unclear whether progress has been made regarding planning the projects in the Town of Centreville. Medium 	<ul style="list-style-type: none"> Medium
Septic Systems	<ul style="list-style-type: none"> Strong commitments were made to enhance Legal Authority and Funding. High 	<ul style="list-style-type: none"> Strong progress made on commitments to enhance legal authority through septic BNR requirements. Commitments to secure septic funding and continue septic pump-outs are ongoing. High 	<ul style="list-style-type: none"> High <p>Although not part of the programmatic milestones, it is acknowledged that septic upgrades are in progress.</p>
Wastewater Plants	<ul style="list-style-type: none"> Significant commitment to internal and external coordination with Queenstown and Centerville. High 	<ul style="list-style-type: none"> Progress is consistent with original commitment. High 	<ul style="list-style-type: none"> High
BMP Implementation			Implementation progress has been made through the completion of stormwater retrofits, septic upgrades and restoration projects, as reported in the County's " Phase II WIP 2012-2013 Milestones Update ".

Somerset County 2012-2013 Milestones Evaluation

The County¹ received ratings ranging from “Low” to “High” in the 2012-2013 Milestones evaluation, as summarized in the following table. Progress has been made in the stormwater sector with high marks for planning associated with identifying potential retrofit sites. Although modest programmatic commitments in the septic systems sector were not achieved, it is acknowledged that implementation progress has occurred through system upgrades. Municipal waste water treatment upgrades are on track. Going forward, a more robust commitment to setting and achieving programmatic milestones is needed in order to build capacity for making more substantive progress.

Summary Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	• High	• Medium	<ul style="list-style-type: none"> • Medium <p>The grant for project identification is very positive. Effort to follow up on this and more effort toward securing resources to meet septic system reduction obligations should be reflected in future milestones.</p>
Legal Authority Enhancements (e.g., new ordinances)	• None	• None	<ul style="list-style-type: none"> • None <p>No commitments made to enhance legal authorities to increase water quality restoration capacity.</p>
Organizational Enhancements	• Medium	• Medium	<ul style="list-style-type: none"> • Medium <p>Although most of the original milestones in this category were met, too few original milestones were identified.</p>
Planning/Studies	• Medium	• High	<ul style="list-style-type: none"> • High <p>Most of the Planning/Studies that have been completed address channel restoration and stormwater retrofits. A large number of retrofit concepts were developed.</p>

¹ Although we routinely make reference to “the County” as if it’s a single entity, it is often shorthand for an amalgam of the county and municipal governments as well as other partners

Somerset County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Public Engagement	• Medium	• Low	• Low No progress was reported on original commitment to conduct public outreach and education on septic pumping.
Addresses Appropriate Sectors? (Comprehensiveness)	• High	• Medium	• Medium Milestones reflect commitments that are comprehensive across the stormwater and wastewater sectors. The septic system sector commitment was not addressed. Municipal waste water treatment upgrades are on track.
BMP Implementation			Implementation actions were identified as septic upgrades, restoration activities, street sweeping and stormwater retrofits. Programmatic Milestone achievements and BMP Implementation Progress for 2012-2013 are both presented in detail in the <u>Somerset County 2012-2013 Programmatic Milestones Final Report.</u>

Detailed Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • Medium <p>The grant for project identification is very positive. Effort to follow up on this and more effort toward securing resources to meet septic system reduction obligations should be reflected in future milestones.</p>
Funding	<ul style="list-style-type: none"> • Through a grant obtained from the National Fish and Wildlife Foundation, Inc., receive assistance from the Center for Watershed Protection for retrofit identification and other planning activities. • Explore funding mechanisms for the development of the framework for a County-wide septic pumping program. • High 	<ul style="list-style-type: none"> • Somerset County received the grant from NFWF and a report was prepared by CWP entitled "Stormwater Retrofit Opportunities in Somerset County, MD." • No significant progress to date. • Medium 	<ul style="list-style-type: none"> • Medium <p>The grant for project identification is very positive. More effort toward securing funding for the septic system sector should be reflected in future milestones.</p>
Staff: New or re-assigned	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • Low
Contractor Support	<ul style="list-style-type: none"> • Secure Center for Watershed Protection (CWP) to identify potential retrofit projects and 	<ul style="list-style-type: none"> • CWP secured. Work completed. • High 	<ul style="list-style-type: none"> • High

Somerset County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	planning needs. • High		
Legal Authority Enhancements (e.g., new ordinances)	• None	• None	• None No commitments were made to enhance legal authorities to increase water quality restoration capacity.
Organizational Enhancements	• Medium	• Medium	• Medium Although most of the original milestones in this category were met, too few original milestones were identified.
Internal and External Coordination	• Coordination with the town of Princess Anne on stormwater management and street sweeping. • Medium	• The continued coordination is reflected in the local milestone status report. • Medium	• Medium
Tracking/Reporting	• Develop tracking and reporting systems for future implementation actions related to septic system upgrades and Urban BMPs being proposed. • Develop the framework for a County-wide program of septic system pumping, including a tracking system. • High	• Septic upgrades and BAT system installations are tracked by the local Health Department. Tracking for the urban strategies are handled through the regular inspections required by the County's Stormwater Management Ordinance. • No significant progress to date. • Medium	• Medium It is unclear from the milestone status report that tracking and reporting systems were developed, versus simply noting existing mechanisms.

Somerset County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
New Programs	• Low	• Low	• Low
Program Enhancements	• Low	• Low	• Low
Planning/Studies	• Medium	• High	• High Most of the Planning/Studies that have been completed address channel restoration and stormwater retrofits. A large number of retrofit concepts were developed.
	<ul style="list-style-type: none"> • Planning for identification of retrofit management projects and other restoration strategies with assistance from the Center for Watershed Protection (CWP). • Identify strategies that will help meet the County's Urban target for 2025. • The Town of Princess Anne: Continue planning for restoration activities. • Medium 	<ul style="list-style-type: none"> • A report was prepared by CWP entitled "Stormwater Retrofit Opportunities in Somerset County, MD." Suitable areas were identified for retrofits and 46 retrofit concepts were developed. • The County is assessing its next steps toward meeting the Urban sector targets, but it is anticipated that at the minimum, several projects will be pursued as a result of the CWP study as grant funding allows. • Princess Anne is planning channel restoration and bioretention and shoreline protection within Manokin River Park. • High 	• High

Somerset County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Public Engagement	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • Low <p>No progress was reported on original commitment to conduct public outreach and education on septic pumping.</p>
	<ul style="list-style-type: none"> • Develop the framework for a County-wide program of septic system pumping, including public outreach and education. • Medium 	<ul style="list-style-type: none"> • No significant progress to date. • Low 	<ul style="list-style-type: none"> • Low
Addresses Appropriate Sectors? (Comprehensiveness)	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • Medium <p>All appropriate sectors were addressed by the milestone commitments; however, the septic system sector commitment was not addressed. Municipal waste water treatment upgrades are on track.</p>
Stormwater	<ul style="list-style-type: none"> • Planning for identification of retrofit management projects. • High 	<ul style="list-style-type: none"> • A report was prepared by CWP entitled "Stormwater Retrofit Opportunities in Somerset County, MD." Suitable areas were identified for retrofits and 46 retrofit concepts were developed. • High 	<ul style="list-style-type: none"> • High

Somerset County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Septic Systems	<ul style="list-style-type: none"> • Develop a framework for a County-wide program of septic system pumping, including a tracking system, public outreach and education, and explore funding mechanisms. • High 	<ul style="list-style-type: none"> • No significant progress to date. • Low 	<ul style="list-style-type: none"> • Low
Wastewater Plants	<ul style="list-style-type: none"> • None 	<ul style="list-style-type: none"> • None 	<ul style="list-style-type: none"> • The County has two major WWTPs, one of which has been upgraded, the other is scheduled to start construction in June 2015. • None
BMP Implementation			<p>Implementation actions were identified as septic upgrades, restoration activities, street sweeping and stormwater retrofits. Programmatic Milestone achievements and BMP Implementation Progress for 2012-2013 are both presented in detail in the <u>"Somerset County 2012-2013 Programmatic Milestones Final Report."</u></p>

St. Mary's County 2012-2013 Milestones Evaluation

The County¹ received “High” and “Medium” ratings in most categories of the 2012-2013 Milestones evaluation, as summarized in the following table. For the stormwater sector, progress was made primarily in planning and design activities. Limited progress was made in the septic sector. This includes the completion of funding activities that were not part of the original goals. A contract for the Marlay Taylor ENR upgrade was awarded, thereby demonstrating significant progress in this sector.

Summary Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	• High	• High	• High An NFWF grant was obtained that was not part of the original milestone goals. Good contractor support.
Legal Authority Enhancements (e.g., new ordinances)	• None	• None	• None No commitments made to enhance legal authorities to increase water quality restoration capacity.
Organizational Enhancements	• High	• High	• High Good commitments to coordination and tracking/reporting. Progress was also made in developing a stormwater inspection program. Good initial progress in program enhancements through the expansion of the street sweeping program.
Planning/Studies	• High	• High	• High Good progress has been made through the design completion of 15 projects, as well as the cost/benefit and design work for retrofits of 75 facilities.
Public Engagement	• Medium	• High	• High While there were no specific public engagement plans mentioned in the original milestones, multiple plans have been initiated

¹ Although we routinely make reference to “the County” as if it’s a single entity, it is often shorthand for an amalgam of the county and municipal governments as well as other partners.

St. Mary's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
			addressing conservation planning, septic upgrades and coastal reforestation.
Addresses Appropriate Sectors? (Comprehensiveness)	• Medium	• High	<ul style="list-style-type: none"> • High <p>Milestones reflect commitments that are comprehensive across the stormwater and wastewater sectors, particularly through stormwater retrofit planning and an ENR upgrade to Marlay Taylor WRF. Progress was made beyond the initial goals in the septic sector through the acquisition of funding for 83 septic upgrades.</p>
BMP Implementation			Implementation accomplishments that were reported in the St. Mary's County 2012-2013 Milestone Report include stormwater management projects and an ENR upgrade for Marlay Taylor Water Reclamation Facility.

Detailed Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>An NFWF grant was obtained that was not part of the original milestone goals. Good contractor support.</p>
Funding	<ul style="list-style-type: none"> • Continue to implement existing CIP projects and to fund existing operational programs that support achieving reductions necessary to meet the load allocations for the county. • Investigate funding options necessary to fund future implementation efforts. • No explicit commitment. • High 	<ul style="list-style-type: none"> • Preliminary design completed for 15 projects with a proposed cost of \$2,885,232. • County selected to participate in Coastal Training Program's "Stormwater Management & Financing Training." • 83 grants were awarded for BAT installation • The St. Mary's River Watershed Association (SMRWA) obtained a National Fish and Wildlife Foundation grant to fund design and construction of small restoration projects at four sites within the St. Mary's River drainage area. • High 	<ul style="list-style-type: none"> • High
Staff: New or re-assigned	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • Low
Contractor Support	<ul style="list-style-type: none"> • Perform future planning/capacity analysis/cost benefit 	<ul style="list-style-type: none"> • Procured consultant(s) services for identifying cost benefit/nutrient 	<ul style="list-style-type: none"> • High

St. Mary's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>analysis to evaluate capacity and needs for county programs and infrastructure.</p> <ul style="list-style-type: none"> • Continuing to prepare for NPDES permit. Initiate a SWM pilot project program to inform our implementation strategy and future NPDES permit development. • High 	<p>reduction and design for retrofit of multiple facilities by Dept. of Public Works & Transportation (DPWT). Developed list of private facilities for county to acquire and retrofit.</p> <ul style="list-style-type: none"> • DPWT and their consultant continued inventory of public and private SWM facilities. Evaluating status/ performance of inventoried facilities. • High 	
Legal Authority Enhancements (e.g., new ordinances)	<ul style="list-style-type: none"> • None 	<ul style="list-style-type: none"> • None 	<ul style="list-style-type: none"> • None <p>No commitments made to enhance legal authorities to increase water quality restoration capacity.</p>
Organizational Enhancements	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Good commitments to coordination and tracking/ reporting. Progress was also made in developing a stormwater inspection program. Good initial progress in program enhancements through the expansion of the street sweeping program.</p>

St. Mary's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Internal and External Coordination	<ul style="list-style-type: none"> • Identify the appropriate tracking measures and monitoring procedures and data entry where these are currently inadequate to institutionalize the assurance of implementation and that information necessary to demonstrate WIP milestone compliance is available. • Work with other counties and organizations to identify common needs and concerns that may be better addressed through statewide or regional efforts/programs. • Coordinate with the State Highway Administration to address SWM, erosion and maintenance issues for their facilities within the county. • High 	<ul style="list-style-type: none"> • Coordinated with Watershed Restoration Specialist & University of Maryland Sea Grant Extension Program on "SMART" tool development for tracking voluntary homeowner BMP installation. • Offered in-kind assistance for a UMD grant application to conduct a septic-owner educational and assessment effort in Southern MD. Offered in-kind assistance for an SCD grant application to conduct a series of meetings between farmers and representatives of the Amish and Mennonite communities, the local Soil Conservation Districts, and Charles and St. Mary's County governments and develop a recommended procedure for the design and construction of conservation practices that are beyond the ability of most farmers to install without some form of assistance. Offered in-kind assistance for an Alliance for the Chesapeake Bay grant application to demonstrate how local forest conservation programs enhance community resilience, target forest conservation in priority places 	<ul style="list-style-type: none"> • High

St. Mary's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
		<p>and develop improved processes in the Southern Maryland counties to reach out to and work with private landowners to achieve an increase in coastal forest cover.</p> <ul style="list-style-type: none"> • DPWT has identified a need to address double counting of credit where private facilities receive runoff from state facilities. • High 	
Tracking/Reporting	<ul style="list-style-type: none"> • Continue to implement existing CIP projects and to fund existing operational programs that support achieving reductions necessary to meet the load allocations for the county. • Continuing to prepare for NPDES permit. Initiate a SWM pilot project program to inform our implementation strategy and future NPDES permit development. • Identify the appropriate tracking measures and monitoring procedures and data entry where these are currently inadequate to institutionalize the assurance 	<ul style="list-style-type: none"> • Log system for an expanded street sweeping program implemented in 2013 for reporting beginning in FY2014. • DPWT and their consultant continued inventory of public and private SWM facilities. Evaluating status/performance of inventoried facilities. Process established for routinely inspecting and contacting and informing owners/operators of outstanding maintenance deficiencies. • Coordinated with Watershed Restoration Specialist & University of Maryland Sea Grant Extension Program on “SMART” tool development for tracking voluntary homeowner BMP installation. Pilot 	<ul style="list-style-type: none"> • High

St. Mary's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>of implementation and that information necessary to demonstrate WIP milestone compliance is available.</p> <ul style="list-style-type: none"> • High 	<p>project and reporting to commence once Watershed stewards are trained for verification. Refinements made to conservation tracker for local Ag BMPs. Consultant services used by DPWT to refine SWM database for tracking including GIS location for culverts, inlets.</p> <ul style="list-style-type: none"> • High 	
New Programs	<ul style="list-style-type: none"> • Initiate a SWM pilot project program to inform our implementation strategy and future NPDES permit development. • High 	<ul style="list-style-type: none"> • Process established for routinely inspecting and contacting and informing owners/operators of outstanding maintenance deficiencies. • High 	<ul style="list-style-type: none"> • High
Program Enhancements	<ul style="list-style-type: none"> • Continue to implement existing CIP projects and to fund existing operational programs that support achieving reductions necessary to meet the load allocations for the county. • High 	<ul style="list-style-type: none"> • Expanded street sweeping program and log system implemented in 2013 for reporting beginning in FY2014. • Medium 	<ul style="list-style-type: none"> • Medium
Planning/Studies	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Good progress has been made through the design completion of 15 projects, as well as the cost/benefit and design</p>

St. Mary's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
			work for retrofits of 75 facilities.
	<ul style="list-style-type: none"> • Continue to implement existing CIP projects and to fund existing operational programs that support achieving reductions necessary to meet the load allocations for the county. • Perform future planning/capacity analysis/cost benefit analysis to evaluate capacity and needs for county programs and infrastructure. • Continuing to prepare for NPDES permit. Initiate a SWM pilot project program to inform our implementation strategy and future NPDES permit development. • Work with other counties and organizations to identify common needs and concerns that may be better addressed through statewide or regional efforts/programs. • High 	<ul style="list-style-type: none"> • Preliminary design completed for 15 projects. • Procured consultant(s) services for identifying cost benefit/ nutrient reduction and design for retrofit of 75 facilities by Dept. of Public Works & transportation. Developed list of private facilities for county to acquire and retrofit. • Inventory of public and private SWM facilities. Evaluating status/performance of inventoried facilities. • Offered in-kind assistance for an Alliance for the Chesapeake Bay grant application to demonstrate how local forest conservation programs enhance community resilience and to target forest conservation in priority places. • High 	<ul style="list-style-type: none"> • High

St. Mary's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Public Engagement	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>While no specific public engagement plans were mentioned in the original milestones, multiple plans have been initiated addressing conservation planning, septic upgrades and coastal reforestation.</p>
	<ul style="list-style-type: none"> • Work with other counties and organizations to identify common needs and concerns that may be better addressed through statewide or regional efforts/programs. • Medium 	<ul style="list-style-type: none"> • Offered in-kind assistance for a UMD grant application to conduct a septic-owner educational and assessment effort in Southern MD. The primary goal for this proposal is to educate septic-owners about responsible maintenance actions and new technology. A secondary goal is to initiate a behavior change effort by taking advantage of the participants' presence and utilizing them as focus groups. Offered in-kind assistance for an SCD grant application to conduct a series of meetings between farmers and representatives of the Amish and Mennonite communities, the local Soil Conservation Districts, and Charles and St. Mary's County governments and develop a recommended procedure for the 	<ul style="list-style-type: none"> • High

St. Mary's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
		<p>design and construction of conservation practices that are beyond the ability of most farmers to install without some form of assistance. Offered in-kind assistance for an Alliance for the Chesapeake Bay grant application to demonstrate how local forest conservation programs enhance community resilience, and develop improved processes in the Southern Maryland counties to reach out to and work with private landowners to achieve an increase in coastal forest cover.</p> <ul style="list-style-type: none"> • High 	
Addresses Appropriate Sectors? (Comprehensiveness)	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Good progress has been achieved in the stormwater and wastewater sectors, particularly through stormwater retrofit planning and an ENR upgrade to Marlay Taylor WRF. Progress was made beyond the initial goals in the septic sector through the acquisition of funding for 83 septic upgrades.</p>

St. Mary's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Stormwater	<ul style="list-style-type: none"> • Commitment made to enhance the stormwater sector through the establishment of a maintenance inspection program, which is addressed in "New Programs". Additional commitments focus on enhancing programs, funding and planning activities. • High 	<ul style="list-style-type: none"> • Good progress has been made and is consistent with the original commitment. • High 	<ul style="list-style-type: none"> • High <p>It has been noted that progress has been made through coordination with the Amish and Mennonite communities on the development of conservation practices. Efforts to engage private land owners in coastal reforestation are also commendable.</p>
Septic Systems	<ul style="list-style-type: none"> • Work with other counties and organizations to identify common needs and concerns that may be better addressed through statewide or regional efforts/programs. • Milestone not explicitly stated. • Medium 	<ul style="list-style-type: none"> • Offered in-kind assistance for a UMD grant application to conduct a septic-owner educational and assessment effort in Southern MD. The primary goal for this proposal is to educate septic-owners about responsible maintenance actions and new technology. A secondary goal is to initiate a behavior change effort by taking advantage of the participants' presence and utilizing them as focus groups. • 83 grants were awarded for septic upgrades (BAT installation) as of November 2013. • Medium 	<ul style="list-style-type: none"> • Medium

St. Mary's County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Wastewater Plants	<ul style="list-style-type: none"> • Milestones not explicitly stated. • None 	<ul style="list-style-type: none"> • Although no programmatic commitments have been made, a contract for the Marlay Taylor ENR upgrade was awarded. • High 	<ul style="list-style-type: none"> • High <p>Based on plans to upgrade Marlay Taylor WRF to ENR.</p>
BMP Implementation			<p>Implementation accomplishments that were reported in the St. Mary's County 2012-2013 Milestone Report include stormwater management projects and an ENR upgrade for Marlay Taylor Water Reclamation Facility.</p>

Talbot County 2012-2013 Milestones Evaluation

The County¹ received a mix of “High”, “Medium” and “Low” ratings for the categories of the 2012-2013 Milestones evaluation, as summarized in the following table. Good progress was made in the stormwater and septic sectors through planning and funding activities. No milestones were identified for the wastewater sector. However, plans are being developed to utilize the available WWTP nutrient cap. A commitment to public engagement should be reflected in future milestones.

Summary Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	• High	• High	• High The “High” rating is based on the strong commitment to securing funding for upgrading septic systems and connections. Other sub-categories in Resource Enhancements were not addressed. These present an opportunity for development in future milestones.
Legal Authority Enhancements (e.g., new ordinances)	• None	• None	• None No commitments were made to enhance legal authorities to increase water quality restoration capacity.
Organizational Enhancements	• High	• High	• High Good commitment to all sub-categories in Organizational Enhancements. All milestones have been met, and additional progress has been made through coordination with several towns, efforts which were not part of the original goals.

¹ Although we routinely make reference to “the County” as if it’s a single entity, it is often shorthand for an amalgam of the county and municipal governments as well as other partners

Talbot County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Planning/Studies	• High	• Medium	<ul style="list-style-type: none"> • Medium <p>A few high quality commitments were made. However, some goals were not accomplished or reported on. Goals that have been completed represent steady progress. This category provides a good opportunity for future development.</p>
Public Engagement	• Low	• Low	<ul style="list-style-type: none"> • Low <p>No commitments made to enhance public engagement activities.</p>
Addresses Appropriate Sectors? (Comprehensiveness)	• High	• High	<ul style="list-style-type: none"> • High <p>Good progress has been made in the stormwater and septic sectors through BMP and restoration planning, as well as through acquiring funding for septic system upgrades and planning for connections to WWTPs. A commitment is made to maintain a high level of WWTP efficiency.</p>
BMP Implementation			<p>Final Programmatic Milestone achievements and BMP Implementation Progress for 2012-2013 are both presented in more detail in the "Revised Two-Year TMDL Milestones: Progress and Proposed 2015 Milestones Talbot County Maryland" document.</p>

Detailed Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>The “High” rating is based on the strong commitment to securing funding for upgrading septic systems and connections. Other sub-categories in Resource Enhancements were not addressed. These present an opportunity for development in future milestones.</p>
Funding	<ul style="list-style-type: none"> • Continue to seek funding for, and facilitate the installation of, denitrification of on-site septic systems. Assess local funding needs and options. • Determine State and federal funding for BMP installation. • Determine local funding requirements and develop method for obtaining funds. • High 	<ul style="list-style-type: none"> • Received \$1.2 million in funding from the Bay Restoration Fund for conversion of septic systems to denitrification and connection to Enhanced Nutrient Reduction (ENR) systems. • Attended MDE meetings about, and have kept informed of, current status of grant opportunities. Prospects for State and federal funding of urban stormwater BMPs are not favorable. Septic goal may be at least partially 	<ul style="list-style-type: none"> • High

Talbot County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
		<p>achieved through the freeing up of Bay Restoration Funds in 2017. This could occur after all major wastewater treatment plants are upgraded to ENR standards by the Bay Restoration Fund.</p> <ul style="list-style-type: none"> • Staff has worked with MDE's nutrient trading work group to ensure jurisdictions can participate in trading program as this would result in the most cost effective approach. <p><i>Programmatic initiatives not included in County's original milestones:</i></p> <ul style="list-style-type: none"> • Staff has worked with and secured State funding for Trappe, St. Michaels, Oxford and Easton to develop municipal level Watershed Implementation Plans. • Acquired funding for the installation of a floating wetland in Easton. • Reallocation of local funds (\$50,000) toward the Glebe Road Project. • High 	
Staff: New or re-assigned	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • Low
Contractor Support	<ul style="list-style-type: none"> • None 	<ul style="list-style-type: none"> • None 	<ul style="list-style-type: none"> • None

Talbot County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Legal Authority Enhancements (e.g., new ordinances)	<ul style="list-style-type: none"> • None 	<ul style="list-style-type: none"> • None 	<ul style="list-style-type: none"> • None <p>No commitments were made to enhance legal authorities to increase water quality restoration capacity.</p>
Organizational Enhancements	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Good commitment to all sub-categories in Organizational Enhancements. All milestones have been met, and additional progress has been made through coordination with several towns, efforts which were not part of the original goals.</p>
Internal and External Coordination	<ul style="list-style-type: none"> • Develop and implement institutional arrangements to achieve local TMDL through coordination with local stakeholders and especially with municipalities and the State. • Establish a water and sewer plan policy giving priority to 	<ul style="list-style-type: none"> • Staff has attended regional and State level meetings to receive briefings on current status of State TMDL efforts. Staff has participated in MDE's Accounting for Growth Workgroup to develop program to implement offsets and nutrient trading to meet the TMDLs. • A joint workgroup of the Planning 	<ul style="list-style-type: none"> • High

Talbot County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>the connection of existing on-site septic systems with an order of location precedence for connection.</p> <ul style="list-style-type: none"> • Work with the municipalities to increase tree canopy cover requirements in urban and rural areas. • Develop tracking mechanism for installed BMPs and track assumed pollution reductions. • High 	<p>Commission and the Public Works Advisory Board has prepared a recommendation for growth and sewer extension policies which will address this milestone.</p> <ul style="list-style-type: none"> • Urban tree canopy has been accepted as a viable Best Management Practice. • Staff worked with MDE and several non-profit organizations to produce an effective Best Management Practice tracking mechanism. <p><i>Programmatic initiatives not included in County's original milestones:</i></p> <ul style="list-style-type: none"> • Staff has worked with and secured State funding for Trappe, St. Michaels, Oxford and Easton to develop municipal level Watershed Implementation Plans. • High 	
Tracking/Reporting	<ul style="list-style-type: none"> • Review land cover location and amount by type. • Gain detailed understanding of the MAST BMPs and their installation requirements. • Develop tracking mechanism for installed BMPs and track 	<ul style="list-style-type: none"> • Staff assessed MAST land cover data and it is not mapped, so confirming site specific land cover is not possible. This milestone is complete. • Staff has monitored the performance of the demonstration projects installed in Talbot County. 	<ul style="list-style-type: none"> • High

Talbot County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>assumed pollution reductions.</p> <ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • Staff worked with MDE and several non-profit organizations to produce an effective Best Management Practice tracking mechanism. • High 	
New Programs	<ul style="list-style-type: none"> • Pursue implementation of a septic utility for inspection and pump out of on-site septic systems. • Establish a water and sewer plan policy giving priority to the connection of existing on-site septic systems with an order of location precedence for connection. This policy would set priorities to achieve the maximum pollution reduction from such efforts. • Develop a mechanism for urban nutrient management planning and implementation. Implement plans and policies for the municipalities and villages. • High 	<ul style="list-style-type: none"> • Proposal submitted to County Council for their consideration. • A joint workgroup of the Planning Commission and the Public Works Advisory Board has prepared a recommendation for growth and sewer extension policies which will address this milestone. • No longer needed: County cites completion of Chesapeake Bay Program's <i>Recommendations of the Expert Panel to Define Removal Rates for Urban Nutrient Management</i> (Schuler and Lane 2013) as providing the current thinking on the components of urban nutrient management and its results. • High 	<ul style="list-style-type: none"> • High

Talbot County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Program Enhancements	<ul style="list-style-type: none"> • Work with the municipalities to increase tree canopy cover requirements in urban and rural areas. • Medium 	<ul style="list-style-type: none"> • Urban tree canopy has been accepted as a viable Best Management Practice. • Medium 	<ul style="list-style-type: none"> • Medium
Planning/Studies	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • Medium <p>A few high quality commitments were made. However, some goals were not accomplished or reported on. Goals that have been completed represent steady progress. This category provides a good opportunity for future development.</p>
	<ul style="list-style-type: none"> • Coordinate with the State, Talbot County Departments, municipalities and private landowners to develop an inventory of potential sites for BMP installation. Produce a list of such sites and assess their availability and viability. • Explore the efficacy of improving management of 	<ul style="list-style-type: none"> • No update provided on the development of a site list for BMP installation. • Staff has explored innovative technologies through demonstration projects. • Staff is keeping informed of MAST amendments. • The Center for Watershed Protection has analyzed and produced nitrogen 	<ul style="list-style-type: none"> • Medium

Talbot County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>roadside ditches. Determine the opportunity for converting roadside ditches to bioswales and wetlands.</p> <ul style="list-style-type: none"> • Review MAST TMDL strategy as new BMPs are added. Amend Talbot County strategy as appropriate. • Gain detailed understanding of the MAST BMPs and their installation requirements. • Develop a mechanism for urban nutrient management planning and implementation. Implement plans and policies for the municipalities and villages. Establish a water and sewer plan policy giving priority to the connection of existing on-site septic systems with an order of location precedence for connection. This policy would set priorities to achieve maximum pollution reductions from such efforts. • High 	<p>reduction efficiencies for the bag filters installed in Talbot County. Staff has attended meetings and field demonstrations of innovative BMPs/</p> <ul style="list-style-type: none"> • Chesapeake Bay Program completed Recommendations of the Expert Panel to Define Removal Rates for Urban Nutrient Management (Schuler and Lane 2013). This document provides the current thinking on the components of urban nutrient management and its results. • Medium 	

Talbot County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Public Engagement	• Low	• Low	• Low No commitments made to enhance public engagement activities.
Addresses Appropriate Sectors? (Comprehensiveness)	• High	• High	• High Good progress has been made in the stormwater and septic sectors through BMP and restoration planning, as well as through acquiring funding for septic system upgrades and planning for connections to WWTPs. A commitment is made to maintain a high level of WWTP efficiency.
Stormwater	• Commitments were made to planning and organizational functions. • High	• Progress was made on achieving organizational and planning commitments. Stormwater milestones were met in both of these categories by planning for restoration and BMP activities. • High	• High
Septic Systems	• Significant commitments were made to enhance septic sector through funding for	• Significant progress was made on achieving commitments to septic Funding and New Programs.	• High

Talbot County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>upgrades and connections to WWTPs and planning for the establishment of new septic programs.</p> <ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	
Wastewater Plants	<ul style="list-style-type: none"> • The County cites reduced discharge levels of TN and TP at the ENR-upgraded Region II WWTP, providing a surplus (below cap) of 4,040 lbs+ of TN for 2012, 2013 and 2014, and 203+ lbs of TP for each year from 2012 through the end of 2014. • Medium 	<ul style="list-style-type: none"> • As milestone progress, the County notes that the Region II WWTP continues to operate below the nutrient caps, and expects this “variance” can be used to help Talbot County meet its TMDL obligations. • Medium 	<ul style="list-style-type: none"> • Medium <p>A commitment to maintain available wastewater capacity is enabling this sector to facilitate projects to connect septic systems to ENR WWTPs.</p>
BMP Implementation			<p>Final Programmatic Milestone achievements and BMP Implementation Progress for 2012-2013 are both presented in more detail in the <u>“Revised Two-Year TMDL Milestones: Progress and Proposed 2015 Milestones Talbot County Maryland”</u> document.</p>

Washington County 2012-2013 Milestones Evaluation

The County¹ received “High” ratings in nearly all categories of the 2012-2013 Milestones evaluation, as summarized in the following table. Significant progress was made in the stormwater, septic and wastewater sectors. This is demonstrated by the development of retrofit plans, initiating septic investigations and design plans for a WWTP ENR upgrade. In some cases, such as planning/studies and public engagement, the overall rating reflects acknowledgement of the large number of commitments to enhancing these areas.

Summary Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	• High	• High	<ul style="list-style-type: none"> • High <p>Significant commitments to fund implementation and restoration projects, as well as contractor support for additional projects. County added one FTE to manage local watershed and WIP efforts.</p>
Legal Authority Enhancements (e.g., new ordinances)	• High	• None	<ul style="list-style-type: none"> • Medium <p>Proposed local actions on septic requirements were not pursued, as State regulations are now in force. Original milestones demonstrate local commitment to address septic sector.</p>
Organizational Enhancements	• High	• High	<ul style="list-style-type: none"> • High <p>Outstanding commitment to internal/ external coordination. Strong goals have been set for tracking and reporting. Most of the new programs/program enhancements are being actively pursued, particularly expansion of municipal street sweeping programs.</p>
Planning/Studies	• High	• High	<ul style="list-style-type: none"> • High <p>Although some of the proposed planning projects have not been finished, there has been an overwhelming commitment to</p>

¹ Although we routinely make reference to “the County” as if it’s a single entity, it is often shorthand for an amalgam of the county and municipal governments as well as other partners

Washington County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
			pursuing and completing numerous planning and restoration projects, reflected in part by the large number of original goals.
Public Engagement	• High	• High	<ul style="list-style-type: none"> • High <p>Many of the original public engagement goals have been met. Given the large number of original goals, this still represents significant progress on original commitments.</p>
Addresses Appropriate Sectors? (Comprehensiveness)	• High	• High	<ul style="list-style-type: none"> • High <p>Considerable attention has been focused on the stormwater, septic and wastewater sectors. This is evidenced by a multitude of retrofit plans, septic investigations and the initiation of design plans for a WWTP ENR upgrade.</p>
BMP Implementation			<p>There has been a significant commitment to BMP Implementation. Most of the progress has occurred through stormwater restoration and septic upgrade projects. Final Programmatic Milestone achievements and BMP Implementation Progress for 2012-2013 are both presented in more detail in the “Washington County WIP Milestone Progress Report”.</p>

Detailed Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Significant commitments to fund implementation and restoration projects, as well as contractor support for additional projects. County added one FTE to manage local watershed and WIP efforts.</p>
Funding	<p><i>Washington County:</i></p> <ul style="list-style-type: none"> • Review level of implementation projects required to meet the WIP loading reduction numbers and prepare a presentation to the BoCC for their direction and approval. This report will address funding requirements and will provide funding alternatives which may include, but are limited to, state and/or local fees. • Development of a project list which can be utilized in development of yearly funding requests from the Board and various grant sources. • Pursue various grant funding 	<p><i>Washington County:</i></p> <ul style="list-style-type: none"> • The Division of Environmental Management made a presentation to the Board of County Commissioners on May 22, 2012. • Other proposed best management practice projects will be identified in 2013 to best utilize the approved FY14 CIP funding. Projects may include bio-swales, bio-filters, permeable pavements, ponds, and wetlands along roadways as well as a street sweeping program. • Washington County staff anticipates grant opportunities at the Chesapeake Bay Trust to open for Restoration and Retrofits, 	<ul style="list-style-type: none"> • High

Washington County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>sources for implementation projects.</p> <p>Town of Funkstown:</p> <ul style="list-style-type: none"> Pursue grant funding from POS for tree planning. <p>Town of Williamsport:</p> <ul style="list-style-type: none"> Received grant for greening of the main street which includes rain barrel installation, replacement of sidewalk with previous concrete and planting of trees. Hold a benefit concert at River Bottom Park with proceeds being divided between participating WIP stakeholders and utilized for educational and implementation projects for the WIP. Exact projects will be dependent upon amount of funds raised. <p>Soil Conservation District:</p> <ul style="list-style-type: none"> Antietam Creek Watershed Restoration Plan: Implementation <p>City of Hagerstown:</p> <ul style="list-style-type: none"> Under direction from the City Council, study additional sections of Hamilton Run, Marsh Run, and Antietam Creek within the City's corporate limits to identify sites for future stream restoration projects. 	<p>Environmental Education and Outreach. Washington County Staff will monitor for openings and apply for grants as applicable to promote the goals of the WIP program. Staff will also inquire with Department of Natural Resources as to assistance through the Watershed Assistance Collaborative for possible funding opportunities.</p> <p>Town of Funkstown:</p> <ul style="list-style-type: none"> The Town has been approved for a POS grant that will begin late summer, and will include several trees to be planted. <p>Town of Williamsport:</p> <ul style="list-style-type: none"> Completed Completed <p>Soil Conservation District:</p> <ul style="list-style-type: none"> Obtained Clean Water Act Section 319(h) funding for two stream restoration projects identified in the Antietam Creek Watershed Restoration Plan in the fall of 2013. <p>City of Hagerstown:</p> <ul style="list-style-type: none"> City staff has completed a preliminary inventory of potential stream restoration project sites along Antietam Creek and Hamilton 	

Washington County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<ul style="list-style-type: none"> • City of Hagerstown: If so directed by the City Council, begin preliminary studies on the feasibility of potential funding mechanisms to pay for anticipated storm water improvements. Mechanisms could include a future Storm Water Utility Fee, or other programs to develop a revenue stream to pay for the required improvements. • High 	<p>Run. The City is seeking grant funding to hire a consultant to prepare conceptual designs for future stream restoration projects at these locations, and will include these projects in future Capital Improvement Project budget requests.</p> <ul style="list-style-type: none"> • City staff has discussed the concept of the implementation of a Stormwater Utility Fee to raise some of the revenue that will be required to fund the projects identified in the Phase II WIP. While the City Council recognizes that development of such a fee is likely inevitable, they are waiting to see if legislation mandating this fee is proposed at the General Assembly. At this point, City staff has not been authorized to proceed with development of a Stormwater Utility Fee. • High 	
Staff: New or re-assigned	<ul style="list-style-type: none"> • Increasing FTE by one position in the Division of Environmental Management for a Watershed Specialist to manage the County's local watershed and WIP efforts. • High 	<ul style="list-style-type: none"> • Position has been filled. • High 	<ul style="list-style-type: none"> • High

Washington County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Contractor Support	<p><i>City of Hagerstown:</i></p> <ul style="list-style-type: none"> • Under direction from the City Council, study additional sections of Hamilton Run, Marsh Run, and Antietam Creek within the City's corporate limits to identify sites for future stream restoration projects. • In anticipation of load reduction requirements likely to result from WIP and NPDES regulations, begin initial studies to identify existing storm water management facilities that could be retrofitted to improve water quality, and studies to identify potential sites for the construction of new storm water management facilities to provide "treatment" for pre-1985 impervious areas. • High 	<p><i>City of Hagerstown:</i></p> <ul style="list-style-type: none"> • The City is seeking grant funding to hire a consultant to prepare conceptual designs for future stream restoration projects along Antietam Creek and Hamilton Run. • The City, with the assistance of a grant from the Chesapeake Bay Trust, has hired URS Corporation to identify/rank potential sites for stormwater retrofit projects, and to develop conceptual designs for some of the highest-ranked sites. The City expects URS to complete this initial in May 2013. • High 	<ul style="list-style-type: none"> • High
Legal Authority Enhancements, e.g., new ordinances	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • None 	<ul style="list-style-type: none"> • Medium <p>Proposed local actions on septic requirements were not pursued, as State regulations are now in force. Original milestones demonstrate local commitment to address septic sector.</p>

Washington County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<ul style="list-style-type: none"> • Review current septic tank repair policies for 1 acre lot sizes and sensitive areas for potential changes to incorporate the requirement of BAT. Implementation of new policies proposed in FY14 contingent upon approval from overseeing authority. • Effective July 1, 2013 (FY14) all repairs on 1 acre lot size or smaller will be BAT technology. • Effective July 1, 2013 (FY14) all new septic tanks and all repairs in sensitive areas will be BAT. • High 	<ul style="list-style-type: none"> • New State regulations address this action. • New State regulations address this action. • New State regulations address this action. • None 	<ul style="list-style-type: none"> • None
Organizational Enhancements	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Outstanding commitment to internal/external coordination. Strong goals have been set for tracking and reporting. Most of the new programs/program enhancements are being actively pursued, particularly expansion of municipal street sweeping programs.</p>

Washington County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Internal and External Coordination	<ul style="list-style-type: none"> • Define the County Phase II MS4 regulated area and work with MDE for approval. This area will exclude any areas which fall in an incorporated municipal area or are under a storm water system that is owned or operated by a separate entity. <p style="text-align: center;"><i>Town of Boonsboro:</i></p> <ul style="list-style-type: none"> • FY12, begin planning of stream buffer areas and conservation easements on Town Farm Property and Shafer Park. Implementation contingent on funding availability and Mayor and Council approval. • Work with local WIP Implementation Team on development of educational outreach on WIP related issues • FY12 - continue working with property owners to address broken cleanout caps in an effort to reduce inflow and infiltration in the sewage collection system. <p style="text-align: center;"><i>Town of Hancock:</i></p> <ul style="list-style-type: none"> • Investigate the potential of mutual projects with C&O Canal to address storm water in Town. Implementation contingent upon 	<ul style="list-style-type: none"> • Washington County Engineering & Construction staff met with MDE staff on several occasions in which there were various discussions regarding the MS4 regulated areas. MDE indicated that the new NPDES permit clearly defines the whole county as being regulated, with the exception of the municipalities with their own stormwater systems. <p style="text-align: center;"><i>Town of Boonsboro:</i></p> <ul style="list-style-type: none"> • Began working with Soil Conservation District to establish best management practices for Town Farm. • Educational Programs under development. • Established Boonsboro Environmental Commission to develop and promote a healthy environment through sound conservation and sustainable practices; encourage responsible waste management; energy and resources conservation; and study other issues that affect the public health and well-being of the citizens of the Town of Boonsboro. <p style="text-align: center;"><i>Town of Hancock:</i></p>	<ul style="list-style-type: none"> • High

Washington County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>National Park Service and Mayor and Council approval and additional on financial feasibility.</p> <p><i>Soil Conservation District:</i></p> <ul style="list-style-type: none"> • Planning FY12/13 stream restoration project with Washington County Division of Environmental Management for Smithsburg WWTP. Implementation of project contingent upon approval by all parties and funding. • Planning FY12/13 stream restoration project with Town of Hancock for Kirkwood Park. Implementation of project contingent upon approval by all parties and funding. • Work with Washington County staff on the review of County properties for potential projects. Implementation of project contingent upon approval by all parties and funding. • High 	<ul style="list-style-type: none"> • Town has had meetings with the C&O Canal staff. C&O currently has no funding for work of this nature. Additional meetings will be held to continue pre-planning of potential projects. <p><i>Soil Conservation District:</i></p> <ul style="list-style-type: none"> • Base survey completed and turned over to County. County will be completing implementation of this project. • Project has been given a lower priority so efforts may be focused in the Antietam Creek watershed. No plans to move forward with project at present. • A Memorandum of Agreement was approved by Board of County Commissioners March 2013 to accomplish this task. County has provided base information of all county property to the WCSCD and the WCSCD is evaluating for potential projects for spring 2014. • High 	
Tracking/Reporting	<p><i>County:</i></p> <ul style="list-style-type: none"> • Review and establish a County reporting and tracking system for 	<p><i>County:</i></p> <ul style="list-style-type: none"> • Development of a tracking system is under way by County Staff. 	<ul style="list-style-type: none"> • High

Washington County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>WIP implementation.</p> <ul style="list-style-type: none"> • Review current tracking, verification and reporting methods of all agencies involved in WIP activities for development of a central consolidation of this information to enhance WIP and local watershed management. <p><i>Town of Keedysville:</i></p> <ul style="list-style-type: none"> • Town Management (Mayor and Council) is exploring ways of interim reporting, milestones and actions taken. • High 	<ul style="list-style-type: none"> • Ongoing evaluation. <p><i>Town of Keedysville:</i></p> <ul style="list-style-type: none"> • Town has developed a spreadsheet to track BMPs completed in the Town. • High 	
New Programs	<p><i>City of Hagerstown:</i></p> <ul style="list-style-type: none"> • Study, and possibly implement (based upon City Council approval), an Urban Nutrient Management Plan for City-owned facilities with significant amounts of maintained turf area (e.g. Fairgrounds Park, Hagerstown Greens golf course, other parks and playgrounds, etc.) • High 	<p><i>City of Hagerstown:</i></p> <ul style="list-style-type: none"> • City staff presented the idea of an Urban Nutrient Management program to the City Council for their consideration; this program would place restrictions on the use of fertilizer and other amendments on the City-owned properties such as parks, playground areas, the City's golf course, and other facilities. Given some uncertainty over the "value" of these efforts with regard to pollutant reduction in the Chesapeake Bay Model, the Council decided to delay implementation 	<ul style="list-style-type: none"> • High

Washington County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
		<p>until additional guidance is provided by MDE/EPA.</p> <ul style="list-style-type: none"> • High 	
Program Enhancements	<p><i>City of Hagerstown:</i></p> <ul style="list-style-type: none"> • Continue the City's current street sweeping program, and possibly expand the scope of the program (i.e. hit more streets more frequently) if the City Council approves additional funding, and if the pollutant reduction benefits are significant. • Study the feasibility of an expanded Urban Nutrient Management program to reduce pollutant loads from non-City owned facilities and properties. <p><i>Town of Smithsburg:</i></p> <ul style="list-style-type: none"> • Evaluate potential of expanding the street sweeping program; planting of additional trees and education outreach on rain gardens and barrels for load reduction potential in meeting the loading allocation. The implementation of these practices is dependent on adoption of the Mayor and Council and funding availability. 	<p><i>City of Hagerstown:</i></p> <ul style="list-style-type: none"> • The Department of Public Works has continued the City's street sweeping program, and has expanded the downtown service area to hit more of the streets in the central code on a weekly basis. DPW is also reviewing the sweeping schedule for the remaining streets in the City, and will look for opportunities to increase the frequencies of service. • City staff also raised the idea of expanding an Urban Nutrient Management program to cover all lands within City limits (public and private). As noted above, the Council will wait to consider implementation of such a plan until additional guidance is available from MDE/EPA. <p><i>Town of Smithsburg:</i></p> <ul style="list-style-type: none"> • The review and evaluation of these programs is ongoing. <p><i>Town of Boonsboro:</i></p> <ul style="list-style-type: none"> • Under analysis to determine benefit in MAST versus financial feasibility. 	<ul style="list-style-type: none"> • High

Washington County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>Town of Boonsboro:</p> <ul style="list-style-type: none"> Mechanical Street Sweeping of all streets in the Town on a bi-monthly basis. Evaluate the potential reduction and financial feasibility of expanding the program for load reduction. Implementation contingent on financial feasibility, funding availability and Mayor and Council approval. <p>Town of Clear Spring:</p> <ul style="list-style-type: none"> Analyze potential of mechanical street sweeping for load reduction in Town. Implementation is contingent on financial feasibility and approval of the Mayor and Council. <p>Town of Funkstown:</p> <ul style="list-style-type: none"> Analyze potential of expanding mechanical street sweeping for load reduction in Town. Implementation is contingent on financial feasibility and approval of the Mayor and Council. <p>Town of Hancock:</p> <ul style="list-style-type: none"> Analyze potential of expanding mechanical street sweeping for load reduction in Town. Implementation is contingent on 	<p>Town of Clear Spring:</p> <ul style="list-style-type: none"> Under analysis to determine benefit in MAST versus financial feasibility. <p>Town of Funkstown:</p> <ul style="list-style-type: none"> Street sweeping will be completed this fall. No update provided on potential expansion of program. <p>Town of Hancock:</p> <ul style="list-style-type: none"> The Town of Hancock is working on a contract to increase street sweeping with final approval contingent on financial feasibility. Town of Hancock is reviewing the potential of expanding the program. <p>City of Hagerstown:</p> <ul style="list-style-type: none"> The Department of Public Works has continued the City's street sweeping program, and has expanded the downtown service area to hit more of the streets in the central code on a weekly basis. DPW is also reviewing the sweeping schedule for the remaining streets in the City, and will look for opportunities to increase the frequencies of service. <ul style="list-style-type: none"> High 	

Washington County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>financial feasibility and approval of the Mayor and Council.</p> <ul style="list-style-type: none"> • Storm drains/culverts cleaning a minimum of twice per year. <p><i>City of Hagerstown:</i></p> <ul style="list-style-type: none"> • Continue the City's current street sweeping program, and possibly expand the scope of the program (i.e. hit more streets more frequently) if the City Council approves additional funding, and if the pollutant reduction benefits are significant. • High 		
Planning/Studies	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Although some of the proposed planning projects have not been finished, there is a strong commitment to pursue and complete numerous planning and restoration projects, reflected in part by the large number of original goals.</p>
	<p><i>Washington County:</i></p> <ul style="list-style-type: none"> • Review potential storm water retrofits and bio filter projects for roadways that could be included in 	<p><i>Washington County:</i></p> <ul style="list-style-type: none"> • The County continues to assess potential storm water retrofits and bio filter projects for 	<ul style="list-style-type: none"> • High

Washington County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>County CIP. Final inclusion and implementation contingent upon funding and approval by Board of County Commissioners.</p> <ul style="list-style-type: none"> • Analyze the potential of placing County owned property under an Urban Nutrient Management Plan. • Replacement of storm water pipe on Brookfield Rd with grass swale. • Analyze potential of replacement of impervious paving with pervious paving for load reduction credit and financial feasibility. • Analyze potential changes to the County Phase II MS4 permit which could become effective in 2012. • Review level of implementation projects required to meet the WIP loading reduction numbers and prepare a presentation to the BoCC for their direction and approval. This report will address funding requirements and will provide funding alternatives which may include, but are limited to, state and/or local fees. • Development of a project list which can be utilized in development of yearly funding 	<p>roadways. Some specific projects have been identified in the approved FY 13/14 CIP.</p> <ul style="list-style-type: none"> • This analysis is ongoing and full development of a plan is contingent upon further definition of this BMP. • This project is currently under design, pending negotiations with the property owner. • County performed detailed analysis upon various means of meeting the target load reductions. The initial calculations indicate permeable pavement will cost approximately \$11,000 per lb of Nitrogen removed and \$66,000 per ton of Phosphorus removed. Early analysis of other means indicates that permeable pavement applications may be limited. • The new permit, or draft thereof, has not been provided to the County to date. • The Division of Environmental Management made a presentation to the Washington County Board of County Commissioners on May 	

Washington County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>requests from the Board and various grant sources.</p> <ul style="list-style-type: none"> • Annual street sweeping of 863 miles in regulated and non - regulated urbanized areas and also in non-urbanized areas. • FY12/FY13 - Receive approval of the Preliminary Design Report for the Conococheague WWTP ENR Upgrade project from MDE and begin design. • FY12/FY13 - Receive approval of the Preliminary Design Report for the Winebrenner WWTP ENR Upgrade project from MDE and begin design. • Analysis of Urban Nutrient Management Plan program in Washington County. • Review potential septic connections to public sewer systems. • Review of alternatives to achieve the reductions required in the septic sector including funding requirements and potential sources for presentation to the BoCC to obtain directions and approvals. 	<p>22, 2012.</p> <ul style="list-style-type: none"> • Other proposed best management practice projects will be identified in 2013 to best utilize the approved FY14 CIP funding. Projects may include bio-swales, bio-filters, permeable pavements, ponds, and wetlands along roadways as well as a street sweeping program. • Under investigation for financial feasibility. • Still under MDE review. • Preliminary Design report was approved and the project is currently under design. • This plan is still under review and will be based upon the parameters established in MAST. Implementation dependent on funding. • Ongoing - several areas have been identified. • Alternatives have been evaluated and the report was presented to the BoCC. This report was included with the County Phase II WIP Plan. 	

Washington County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p><i>Town of Boonsboro:</i></p> <ul style="list-style-type: none"> • Begin a televising study of the sewage collection system to identify I&I problem areas in FY12. • FY12, begin planning of stream buffer areas and conservation easements on Town Farm Property and Shafer Park. Implementation contingent on funding availability and Mayor and Council approval. • FY12, begin planning with King Road Association on potential stream buffer project on property. Implementation contingent on funding availability and Mayor and Council approval • FY12/13 - Implement reforestation plantings in Shafer Park for Fletcher's Grove. Implementation contingent on funding availability and Mayor and Council approval. <p><i>Town of Hancock:</i></p> <ul style="list-style-type: none"> • Investigate the potential of mutual projects with C&O Canal to address storm water in Town. Implementation contingent upon National Park Service and Mayor and Council approval and additional on financial feasibility. 	<p><i>Town of Boonsboro:</i></p> <ul style="list-style-type: none"> • Implementation contingent on funding availability and Mayor and Council approval. • Began working with Soil Conservation district to establish best management practices for Town Farm. • In planning phase - Boonsboro Environmental Committee established two sub-committees, Waste Reduction and Trees, to identify and plan for actions. Began participation in Sustainable Maryland Certified program. • Under review - Boonsboro Environmental Committee established two sub-committees, Waste Reduction and Trees, to identify and plan for actions. Began participation in Sustainable Maryland Certified program. <p><i>Town of Hancock:</i></p> <ul style="list-style-type: none"> • Town has had meetings with the C&O Canal staff. C&O currently has no funding for work of this nature. Additional meetings will be held to continue pre-planning of potential projects. 	

Washington County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p><i>Town of Keedysville:</i></p> <ul style="list-style-type: none"> • Town Management (Mayor and Council) will research the ideas developed by County Staff during a site visit to review what the town can do in support of the WIP. No action can be taken on those ideas until full information becomes available on their financial feasibility and approval of the Mayor and Council. <p><i>Town of Sharpsburg:</i></p> <ul style="list-style-type: none"> • Investigate potential reduction of street sweeping for load reductions. Implementation is contingent upon financial feasibility and Mayor and Council approval. <p><i>Soil Conservation District:</i></p> <ul style="list-style-type: none"> • Planning FY12/13 stream restoration project with Crest View HOA. Implementation of project contingent upon approval by all parties and funding. • Planning FY12/13 stream restoration project with Washington County Division of Environmental Management for Smithsburg WwTP. 	<p><i>Town of Keedysville:</i></p> <ul style="list-style-type: none"> • Potential items suggested in the site visit are under review by the Mayor and Council to determine feasibility and funding availability. <p><i>Town of Sharpsburg:</i></p> <ul style="list-style-type: none"> • Under analysis to determine benefit in MAST versus financial feasibility. <p><i>Soil Conservation District:</i></p> <ul style="list-style-type: none"> • Project shifted to a lower priority will be completed in the future. • Base survey completed and turned over to County. County will be completing implementation of this project. • Project has been given a lower priority so efforts may be focused in the Antietam Creek watershed. No plans to move forward with project at present. • Washington County Government is taking the lead on this project which was launched in August 2013 • Obtained EPA approval for the Antietam Creek Watershed Restoration Plan in October of 2012, to address the Sediment and 	

Washington County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>Implementation of project contingent upon approval by all parties and funding.</p> <ul style="list-style-type: none"> • Planning FY12/13 stream restoration project with Town of Hancock for Kirkwood Park. Implementation of project contingent upon approval by all parties and funding. • Evaluate the potential of painting of storm drain inlets (curb) to signify "Chesapeake Bay" drainage area. Implementation is contingent upon financial feasibility and elected body approvals. • Antietam Creek Watershed Restoration Plan <p><i>City of Hagerstown:</i></p> <ul style="list-style-type: none"> • Develop plans for the reconstruction/reconfiguration of the lake at Pangborn Park, which will include replacement of existing hardscape surfaces with a more natural lake shoreline, and the restoration of approximately 400 linear feet of the existing Hamilton Run stream channel adjacent to the park. Planning, design, and ultimate construction are 	<p>Fecal Bacteria TMDLs.</p> <p><i>City of Hagerstown:</i></p> <ul style="list-style-type: none"> • The City's consultant is preparing 90% construction plans for this project, and the City hopes to go to construction before the end of 2013 for Pangborn Park / Hamilton Run Restoration. • City staff has completed a preliminary inventory of potential stream restoration project sites along Antietam Creek and Hamilton Run. The City is seeking grant funding to hire a consultant to prepare conceptual designs for future stream restoration projects at these locations, and will include these projects in future Capital Improvement Project budget requests. • The City, with the assistance of a grant from the Chesapeake Bay Trust, has hired URS Corporation to identify/rank potential sites for stormwater retrofit projects, and to develop conceptual designs for some of the highest-ranked sites. The City expects URS to complete this initial study in May 2013. The 	

Washington County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>contingent upon anticipated grant funding, and General Fund expenditures approved by the City Council.</p> <ul style="list-style-type: none"> • Under direction from the City Council, study additional sections of Hamilton Run, Marsh Run, and Antietam Creek within the City's corporate limits to identify sites for future stream restoration projects. • In anticipation of load reduction requirements likely to result from WIP and NPDES regulations, begin initial studies to identify existing storm water management facilities that could be retrofitted to improve water quality, and studies to identify potential sites for the construction of new storm water management facilities to provide "treatment" for pre-1985 impervious areas. <p><i>Town of Smithsburg:</i></p> <ul style="list-style-type: none"> • Continue investigation of sewage collection system I&I problem areas and schedule repairs based on financial capabilities. • Review potential of Urban Nutrient Management Plan for load 	<p>next step will be to prepare Requests for Proposals to develop design/construction plans for some of these retrofit projects, with the hope that actual construction on some projects may begin in 2014.</p> <p><i>Town of Smithsburg:</i></p> <ul style="list-style-type: none"> • Some repairs made in 2012 and 2013. This will continue in FY14 and FY15. • This plan is still under review and will be based upon the parameters established in MAST. Implementation dependent on funding. • High 	

Washington County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>reduction potential and financial feasibility.</p> <ul style="list-style-type: none"> • High 		
Public Engagement	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Many of the original public engagement goals have been met. Given the large number of original goals, this represents significant progress on original commitments.</p>
	<p><i>Washington County:</i></p> <ul style="list-style-type: none"> • Education of citizens on the WIP and how they can reduce the nutrient and sediment load in Washington County. <p><i>Town of Boonsboro:</i></p> <ul style="list-style-type: none"> • Work with local WIP Implementation Team on development of educational outreach on WIP related issues. • FY12 - continue working with property owners to address broken cleanout caps in an effort to reduce inflow and infiltration in the sewage collection system. • Annual Green Fest event to promote, educate and encourage 	<p><i>Washington County:</i></p> <ul style="list-style-type: none"> • This is an ongoing project for Washington County Staff. Current projects include a pet waste campaign and stormwater inlet stenciling. Staff has also attended the Green Fest and Home Builder Show to talk to residents about the WIP. <p><i>Town of Boonsboro:</i></p> <ul style="list-style-type: none"> • Educational Programs under development. • Established Boonsboro Environmental Commission to develop and promote a healthy environment of the Town of Boonsboro through sound 	<ul style="list-style-type: none"> • High

Washington County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>environmentally friendly actions.</p> <p>Town of Keedysville:</p> <ul style="list-style-type: none"> An educational program of communication with town residents through email and the town newsletter is being implemented advising residents of what individual actions they can take to support the WIP, such as tree planting and installations of rain barrels. <p>Town of Williamsport:</p> <ul style="list-style-type: none"> Hold a benefit concert at River Bottom Park with proceeds being divided between participating WIP stakeholders and utilized for educational and implementation projects for the WIP. Exact projects will be dependent upon amount of funds raised. <p>Soil Conservation District:</p> <ul style="list-style-type: none"> Evaluate the potential of installing rain barrels and/or rain gardens on school properties for educational/outreach initiatives. Implementation contingent upon approval and Board of Education approval. Continue current outreach events 	<p>conservation and sustainable practices; encourage responsible waste management; energy and resources conservation; and studying other issues that affect the public health and well-being of the citizens of Boonsboro.</p> <ul style="list-style-type: none"> Annual event held in April 2013. <p>Town of Keedysville:</p> <ul style="list-style-type: none"> Town has posted information on the website and included in the Town newsletter. <p>Town of Williamsport:</p> <ul style="list-style-type: none"> Completed <p>Soil Conservation District:</p> <ul style="list-style-type: none"> Soil Conservation District will not be pursuing this project. Outreach completed at Home Builder's Show, Boonsboro Green Fest, Urban Conference, Green Card Class and Tree Sale. WCSCD is no longer participating in Sharpsburg Heritage Festival. WCSCD no longer pursuing this project. <p>County Board of Education:</p> <ul style="list-style-type: none"> Ongoing Ongoing Educational Outreach program 	

Washington County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>at the Home Builder's Show; Green Fest; Urban Conference; Green Card Class; Sharpsburg Heritage Festival; and tree sale.</p> <ul style="list-style-type: none"> • Evaluate potential locations for rain barrel and/or rain garden projects at Washington County Agricultural and Education Center complex as educational outreach. Implementation is contingent upon funding and approval by appropriate parties. <p><i>County Board of Education:</i></p> <ul style="list-style-type: none"> • Continue to offer students a variety of education programs including environmental science courses, watershed field trips to the Potomac River, and the Envirothon competition that focuses on environmental resources management. Students have incorporated rain barrels and rain gardens into several school water management plans as an application of their lessons. • Continue students' participation in additional environmental themed programs at the following specialized facilities: Claude 	<p>development is on going. County staff has launched a Pet Waste Campaign and Stormwater Inlet Stenciling program.</p> <ul style="list-style-type: none"> • High 	

Washington County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>Kitchens Outdoor School at Fairview, Agricultural/Environmental Academy at Clear Spring High School, and the Math Science STEM magnet schools at Springfield Middle School and Williamsport Elementary School.</p> <ul style="list-style-type: none"> • Development of educational outreach programs. • High 		
Addresses Appropriate Sectors? (Comprehensiveness)	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Considerable attention has been focused on the stormwater, septic and wastewater sectors. This is evidenced by a multitude of retrofit plans, septic studies and initiation of design plans for a WWTP ENR upgrade.</p>
Stormwater	<ul style="list-style-type: none"> • Significant commitments were made to enhance coordination and planning functions. • High 	<ul style="list-style-type: none"> • Significant progress was made on achieving the commitments. • High 	<ul style="list-style-type: none"> • High
Septic Systems	<ul style="list-style-type: none"> • Significant commitments were made to enhance legal authority on septic requirements. Septic connection study and research of 	<ul style="list-style-type: none"> • Proposed local actions on septic requirements were not pursued in light of new State regulations. Potential septic connection sites 	<ul style="list-style-type: none"> • Medium

Washington County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>alternatives to address septic loads were also stated goals.</p> <ul style="list-style-type: none"> • High 	<p>and alternatives to address septic loads remain under consideration.</p> <ul style="list-style-type: none"> • Medium 	
Wastewater Plants	<ul style="list-style-type: none"> • Significant commitments were made to enhance planning functions regarding two WWTP upgrades to ENR. • High 	<ul style="list-style-type: none"> • Good progress on original commitment. One design is still under review while the other has been approved. • High 	<ul style="list-style-type: none"> • High
BMP Implementation			<p>There has been a significant commitment to BMP Implementation. Most of the progress has occurred through stormwater restoration and septic upgrade projects. Final Programmatic Milestone achievements and BMP Implementation Progress for 2012-2013 are both presented in more detail in the “Washington County WIP Milestone Progress Report”.</p>

Wicomico County 2012-2013 Milestones Evaluation

The County¹ received “High” ratings for most the categories of the 2012-2013 Milestones evaluation, as summarized in the following table. Progress on building stormwater management capacity via initial steps toward a system of fees is promising. Progress on modest commitments for the septic system sector is positive; however, more attention to this sector should be reflected in future milestone commitments. Upgrades are underway in the wastewater sector.

Summary Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	• High	• High	<ul style="list-style-type: none"> • High Original commitments to contractor support and funding have been achieved. Although not identified as a milestone, staffing increases have been realized.
Legal Authority Enhancements (e.g., new ordinances)	• None	• Medium	<ul style="list-style-type: none"> • Medium Efforts made to pursue amendments to State statute governing the Bay Restoration Fund uses.
Organizational Enhancements	• High	• High	<ul style="list-style-type: none"> • High There has been a strong commitment to internal and external coordination. Development of an urban tree program shows good progress. More attention could be given to program enhancements and tracking/reporting.
Planning/Studies	• High	• High	<ul style="list-style-type: none"> • High The County has engaged in numerous planning projects to meet the original milestones.
Public Engagement	• Low	• Medium	<ul style="list-style-type: none"> • Medium Although no commitment to public engagement was made, there have been efforts to encourage outreach and education.

¹ Although we routinely make reference to “the County” as if it’s a single entity, it is often shorthand for an amalgam of the county and municipal governments as well as other partners.

Wicomico County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Addresses Appropriate Sectors? (Comprehensiveness)	• Medium	• High	• High The rating reflects important efforts in all three urban/suburban sectors.
BMP Implementation			Street sweeping programs and upgrades to ENR for wastewater treatment plants in Fruitland and Delmar are implementation activities cited in the Wicomico County Programmatic Milestones report .

Detailed Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Resource Enhancements	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>Original commitments to contractor support and funding have been achieved. Although not identified as a milestone, staffing increases have been realized.</p>
Funding	<ul style="list-style-type: none"> • Identify State and Federal funding opportunities for the purpose of obtaining professional consulting services to prepare watershed management plans for the Wicomico and Pocomoke Rivers. • Partner with non-profit organizations to identify funding sources to implement stormwater BMPs. • Seek increased funding levels of the Bay Restoration Fund to facilitate a septic pumping program that is voucher based. Utilize additional funding to increase the number of septic systems 	<ul style="list-style-type: none"> • Through assistance from the Wicomico Environmental Trust, Wicomico County and the City of Salisbury were able to obtain National Fish and Wildlife Foundation and Chesapeake Bay Trust grants to contract with the Center for Watershed Protection to perform field investigations and prepare a Watershed Management Plan. • The County, City of Salisbury, and WIP members have partnered with the Chesapeake Bay Foundation (CBF), Wicomico Environmental Trust (WET), Wicomico Creekwatchers, and Friends of the Nanticoke River to identify and apply for WIP-related grants. • The Wicomico WIP Planning Team is in continued discussions with local 	<ul style="list-style-type: none"> • High

Wicomico County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>upgraded annually.</p> <ul style="list-style-type: none"> • High 	<p>elected leaders to gauge support for requesting amendments (by a member of the Eastern Shore Delegation) to State legislation about the uses of BRF funds. The WIP Planning Team will continue to research and coordinate with local elected officials to identify potential funding mechanisms to implement a voucher based septic pumping program. As a result of increased funding levels of the Bay Restoration Fund (BRF), the County received \$769,000 in BRF funds in FY 2014 as compared to \$355,000 apportionment in FY 2012.</p> <ul style="list-style-type: none"> • High 	
Staff: New or re-assigned	<ul style="list-style-type: none"> • Low 	<p><i>Programmatic initiatives not included in County's original milestones:</i></p> <ul style="list-style-type: none"> • During this reporting period, the City of Salisbury Public Works hired 5 employees that have some level of interaction with the City's WIP and stormwater management activities. • In 2013, the County hired an additional Long Range Planner, whose work program supports WIP related activities. <ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High

Wicomico County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Contractor Support	<ul style="list-style-type: none"> • Identify State and Federal funding opportunities for the purpose of obtaining professional consulting services to prepare watershed management plans for the Wicomico and Pocomoke Rivers. • Consideration of preparing a Stormwater Financing Feasibility Study. • Consideration of establishing an urban tree canopy program. • High 	<ul style="list-style-type: none"> • Wicomico County and the City of Salisbury were able to contract with the Center for Watershed Protection (CWP) to perform field investigations and prepare a Watershed Management Plan. • The City of Salisbury Public Works Department contracted with the Environmental Finance Center at the University of MD to prepare a Stormwater Financing Feasibility Study. • The County has retained professional consulting services from University of Vermont to conduct a county-wide urban tree canopy assessment. <p><i>Programmatic initiatives not included in County's original milestones:</i></p> <ul style="list-style-type: none"> • The County has established contracts with surveyors, as well as consultants to assist with WIP related endeavors. • High 	<ul style="list-style-type: none"> • High
Legal Authority Enhancements (e.g., new ordinances)	<ul style="list-style-type: none"> • None 	<ul style="list-style-type: none"> • The Wicomico WIP Planning Team is in continued discussions with local elected leaders to gauge support for requesting amendments (by a member of the Eastern Shore Delegation) to State legislation about the uses of BRF funds. • Medium 	<ul style="list-style-type: none"> • Medium <p>Efforts made to pursue amendments to State statute governing the Bay Restoration Fund uses.</p>

Wicomico County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Organizational Enhancements	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>There has been a strong commitment to internal and external coordination. Development of an urban tree program shows good progress. More attention could be given to program enhancements and tracking/reporting.</p>
Internal and External Coordination	<ul style="list-style-type: none"> • Partner with non-profit organizations to identify funding sources to implement stormwater BMPs. • Consideration of preparing a Stormwater Financing Feasibility Study (Salisbury). • Seek increased funding levels of the Bay Restoration Fund to facilitate a septic pumping program that is voucher based. Utilize additional funding to increase the number of septic systems upgraded annually. • Continue discussions with municipalities to accept sewage from individual on-site 	<ul style="list-style-type: none"> • The County, City of Salisbury, and WIP members have partnered with the Chesapeake Bay Foundation (CBF), Wicomico Environmental Trust (WET), Wicomico Creekwatchers, and Friends of the Nanticoke River to identify and apply for WIP-related grants. Participation / partnership ranges from assisting with grant applications, conducting field surveys, review of preliminary and final watershed management – related plans, data development, and providing vendors with GIS data. • The Environmental Finance Center (EFC) presented a report of the study to the City Council on May 6, 2013. Since then Public Works has led 	<ul style="list-style-type: none"> • High

Wicomico County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
	<p>septic systems.</p> <ul style="list-style-type: none"> • Continue discussions with municipalities to expand urban service districts or out-of-town customers. • High 	<p>numerous discussions with the City Council during public work session to discuss the benefits and implementation of a Stormwater Utility.</p> <ul style="list-style-type: none"> • The Wicomico WIP Planning Team is in continued discussions with local elected leaders to gauge support for requesting amendments (by a member of the Eastern Shore Delegation) to State legislation about the uses of BRF funds. The WIP Planning Team will continue to research and coordinate with local elected officials to identify potential funding mechanisms to implement a voucher based septic pumping program. • In 2014, the WIP Planning Team will begin discussions with member jurisdictions about the benefits of accepting sewage at their WWTPs from individual septic systems. Also, the WIP Planning Team will coordinate with MDE to determine if municipalities accepting sewage from individual systems will be eligible to claim a credit for the enhanced nutrient reduction level of treatment. 	

Wicomico County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
		<ul style="list-style-type: none"> Discussions about providing out-of-town customers with public water have occurred out of necessity to mitigate a public health and safety concern (contaminated wells – Morris Mill area). Given the expense associated with providing public water and sewer, the overwhelming majority of municipalities no longer consider it economically feasible to create or expand urban service districts; therefore, service is primarily contingent upon petitioning for annexation. High 	
Tracking/Reporting	<ul style="list-style-type: none"> Low 	<ul style="list-style-type: none"> Low 	<ul style="list-style-type: none"> Low
New Programs	<ul style="list-style-type: none"> Consideration of establishing an urban tree canopy program. High 	<ul style="list-style-type: none"> The assessment is in the final stages of completion, which the data and accompanying reports are anticipated to be delivered by the Spring of 2014. Upon receipt, the County will embark on establishing an urban tree canopy program with assistance from our NGO partners and WIP Planning Team. High 	<ul style="list-style-type: none"> High Good initial steps toward development of a new program.
Program Enhancements	<ul style="list-style-type: none"> Low 	<ul style="list-style-type: none"> Low 	<ul style="list-style-type: none"> Low

Wicomico County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Planning/Studies	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>The County has engaged in numerous planning projects to meet the original milestones.</p>
	<ul style="list-style-type: none"> • Identify State and Federal funding opportunities for the purpose of obtaining professional consulting services to prepare watershed management plans for the Wicomico and Pocomoke Rivers. • Consideration of preparing a Stormwater Financing Feasibility Study (Salisbury). • Consideration of establishing an urban tree canopy program. • Consider preparing a study identifying the impacts of establishing a water and sewer authority • High 	<ul style="list-style-type: none"> • Through assistance from the Wicomico Environmental Trust, Wicomico County and the City of Salisbury were able to obtain National Fish and Wildlife Foundation and Chesapeake Bay Trust grants to contract with the Center for Watershed Protection (CWP) to perform field investigations and prepare a Watershed Management Plan. The next step is to achieve 319 A-I certification for the Plan, which will afford the aforementioned jurisdictions with an alternative source of WIP funding. In April 2013, CWP completed a Watershed Management Plan - Corrective Action Plan for two of the seven Wicomico River subwatersheds. In November 2013, CWP began the Watershed Management Plan. • The City of Salisbury Public Works Department contracted with the Environmental Finance Center (EFC) at 	<ul style="list-style-type: none"> • High

Wicomico County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
		<p>the University of Maryland to prepare a Stormwater Financing Feasibility Study. On January 27, 2014, at a City Council legislative meeting, the Council will hear the first reading of an Ordinance to establish a Stormwater Utility for the City of Salisbury. If the first reading is successful, then the second reading will be scheduled for February 10, 2014. The effective date for creation of the Stormwater Utility is proposed for an undetermined date in FY 15.</p> <ul style="list-style-type: none"> • The County has retained professional consulting services from the University of Vermont to conduct a county-wide urban tree canopy assessment. Upon receipt of the assessment, the County will embark on establishing an urban tree canopy program with assistance from our NGO partners, the WIP Planning Team and the Natural Resource Conservation Advisory Committee (NRCAC). • This programmatic recommendation has been included as an implementation strategy contained in the Draft 2014 Wicomico County 	

Wicomico County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
		<p>Comprehensive Plan. As a result of continued conversations with the County promoting the concept, the Greater Salisbury Committee retained professional consulting services to assist with the preparation of a water and sewer authority feasibility study. Currently, this study is in the final stages of completion.</p> <ul style="list-style-type: none"> • High 	
Public Engagement	<ul style="list-style-type: none"> • Low 	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • Medium <p>Although no commitment to public engagement was made, there have been efforts to encourage outreach and education.</p>
	<ul style="list-style-type: none"> • Low 	<p><i>Programmatic initiatives not included in County's original milestones:</i></p> <ul style="list-style-type: none"> • Notices of open WIP meetings. • WIP information on County website. • Several press releases for implementation projects. • Open public meetings of Salisbury City Council including those involving development of Stormwater Utility. • Public involvement in City of Salisbury's Wicomico River Project Team. <ul style="list-style-type: none"> • Medium 	

Wicomico County 2012-2013 Milestones Evaluation

Review Subject	Original Commitment	Commitment Progress	Overall Rating, Comments/Notes
Addresses Appropriate Sectors? (Comprehensiveness)	<ul style="list-style-type: none"> • Medium 	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • High <p>The rating reflects important efforts in all three urban/suburban sectors.</p>
Stormwater	<ul style="list-style-type: none"> Milestones in the areas of funding, and program development represent moderate commitments. • Medium 	<ul style="list-style-type: none"> Progress exceeds the original commitments in the area of staffing. • High 	<ul style="list-style-type: none"> • High
Septic Systems	<ul style="list-style-type: none"> Moderate commitments were made to seek funding for upgrades through the BRF and to continue coordination efforts. • Medium 	<ul style="list-style-type: none"> Progress is consistent with original commitment. • Medium 	<ul style="list-style-type: none"> • Medium
Wastewater Plants	<ul style="list-style-type: none"> Commitments were made to upgrade Fruitland and Delmar WWTPs to ENR • High 	<ul style="list-style-type: none"> WWTP upgrades to ENR are underway for Fruitland and completed for Delmar • High 	<ul style="list-style-type: none"> • High
BMP Implementation			<p>Street sweeping programs and upgrades to ENR for wastewater treatment plants in Fruitland and Delmar are implementation activities cited in the Wicomico County Programmatic Milestones report.</p>

Summary of Worcester County's Status Report of 2012 - 2013 Milestones

The original two year milestones, as discussed in section V of Worcester County's Phase II WIP, are solely expressed in terms of implementation milestones. Consequently, [Worcester County's progress report update](#) consisted mainly of implementation milestones. Despite the report lacking in programmatic milestone progress, the County appears to be making good progress toward achieving its implementation goals. Two of the three original implementation goals were met (for the stormwater and septic sectors), while ENR upgrades (wastewater) for the towns of Snow Hill and Pocomoke City were completed. Some programmatic milestone progress was expressed through coordination efforts between the County and The Nature Conservancy (TNC) in exploring BMP locations on TNC land and also BMP locations within Worcester County's Chesapeake Bay watershed to install BMPs/target funding for restoration and nutrient reduction activities.